

The Trade Wind Zone Oceanography Pilot Study Part VI: Townsend Cromwell Cruises 16, 17, and 21 May and June 1965 and January 1966

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel

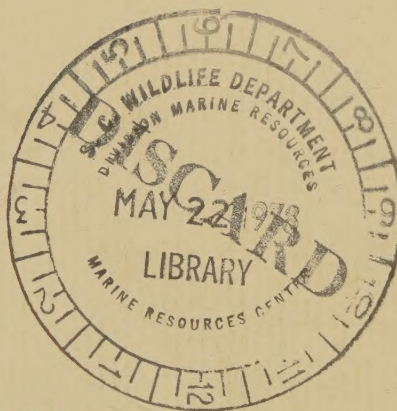
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The Trade Wind Zone Oceanography Pilot Study

Part VI: Townsend Cromwell Cruises 16, 17, and 21

May and June 1965 and January 1966

By

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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the last regular cruises, Townsend Cromwell cruises 16 and 17, May and June 1965, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed. Oceanographic station data from Townsend Cromwell cruise 21 in January 1966, consisting of a single profile of stations between lat. 10° and 26.5° N. along long. 154° W., have been included.

INTRODUCTION

This is the last of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W. In addition to the series of monthly cruises, the field program of the pilot study was extended to include a single profile of stations along long. 154° W. in January 1966.

The complete set of observations represents a three-dimensional time-sequence distribution

of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for cruises 16, 17, and 21, the last cruises in the series. Figure 1 shows the cruise track for cruises 16 and 17 and gives the position of the Nansen bottle oceanographic casts and the BT casts. It also contains these data for Townsend Cromwell cruise 21 with the single profile of stations along long. 154° W., including stations 7A to 16, 39, and one additional station, 39A, at lat. 26.5° N. Although this cruise was, strictly speaking, not a part of the series, the additional data provide a means of comparison of oceanographic conditions in January 1966 along long. 154° W. with those in January 1965.

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

The cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefing and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 16:

May 12 to 31, 1965

Lloyd T. Watarai - HL - Field Party Chief
Jerome S. W. Marr - HL
Howard N. Morinaga - HL
John J. Naughton - HL
James K. Tarasawa - HL
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 17:

June 10 to July 2, 1965

David W. K. Au - HL - Field Party Chief
Barbara E. Boldt - HL
John L. Matthews - HL
Howard N. Morinaga - HL
James K. Tarasawa - HL
Paul Woodward - Smithsonian Institution

Townsend Cromwell, cruise 21:

January 17 to February 2, 1966

Gunter R. Seckel - HL - Field Party Chief
David W. K. Au - HL
John L. Matthews - HL
Howard N. Morinaga - HL
Alan M. Osato - HL

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25; at oceanographic stations 3, 18, and 24, BT casts were made every 20 minutes for a 12-hour period on cruise 17. Surface temperatures and salinity samples were taken from an inside pump system which has an intake at a depth of 8 feet. A Hytech Model 9006 Salinity-Temperature-Depth Measuring System^{2/} was used to collect additional data at stations south of lat. 14° N. on both cruises and at two additional stations along long. 148° W. on cruise 17. These data are not presented in this report.

^{1/} All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

^{2/} Trade names referred to in this publication do not imply endorsement of commercial products.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley pyranometer. These observations were supplemented by daily color photographs of clouds. Surface long wave radiation measurements were taken at night BT stations with the Suomi-Kuhn net radiometer.

Current

Eight drift bottles, supplemented by plastic-enclosed drift cards (Barkley, Ito, and Brown, 1964) during the first and last days of cruises 16 and 17, were released at each BT cast. Two current stations were occupied each cruise; Ekman, Hydro Products, and Roberts current meters were used. Cruise 21 was designed to develop a method of obtaining directly measured currents from a drifting ship which could be correlated with inferred currents and with the water mass structure. To this end, currents to 1,000 m. were measured at stations midway between oceanographic stations. Only the oceanographic station data and BT observations are included in this report.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determina-

tions was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic $\text{PO}_4\text{-P}$ was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^\circ\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer^{2/} at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface intake values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles when available. For temperature, variation was fairly random, so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. Variations were

large, however, and the root mean square value computed from above differences was as much as 0.5°C . The bucket salinity values also showed large variations with a mean of the differences of about 0.005 ‰ and a root mean square value within 0.12 ‰ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 16, 17, and 21, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections alonglong. 148°W. , 151°W. , 154°W. , and 157°W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 8, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 16 and figures 8 through 13 for cruise 17. The one BT section along 154°W. from cruise 21 is shown in figure 14.

The surface temperature distributions, based on intake temperature at each BT cast, are shown in figures 15 and 16 for cruises 16 and 17, respectively.

The surface salinity distributions, based on intake salinity samples at each BT cast, are

shown in figures 17 and 18 for cruises 16 and 17, respectively.

The dynamic topography, relative to 1,200 m. for cruises 16 and 17, is shown in figures 19 and 20, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

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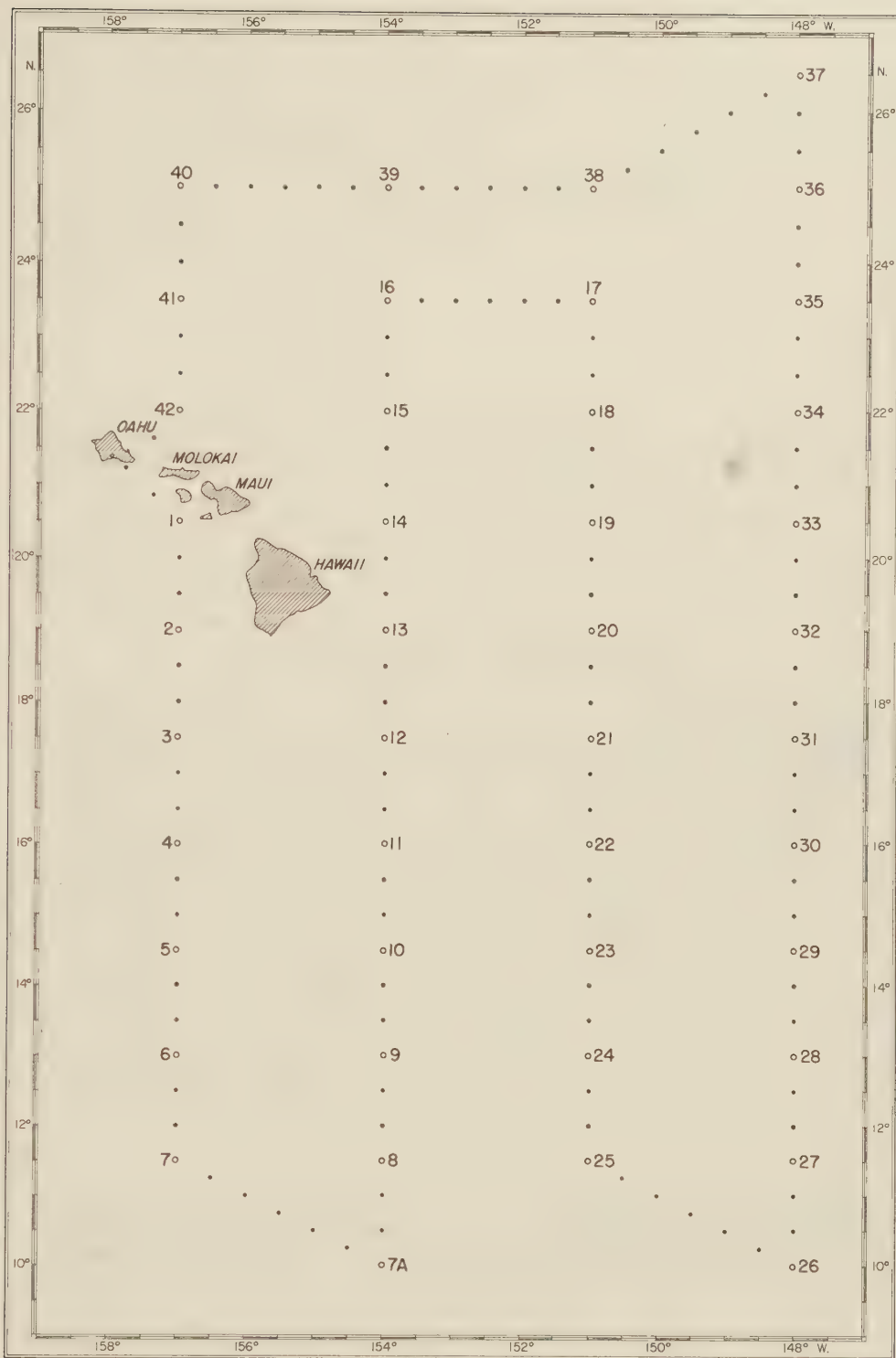


Figure 1.--Track chart for Townsend Cromwell cruises 16 and 17. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

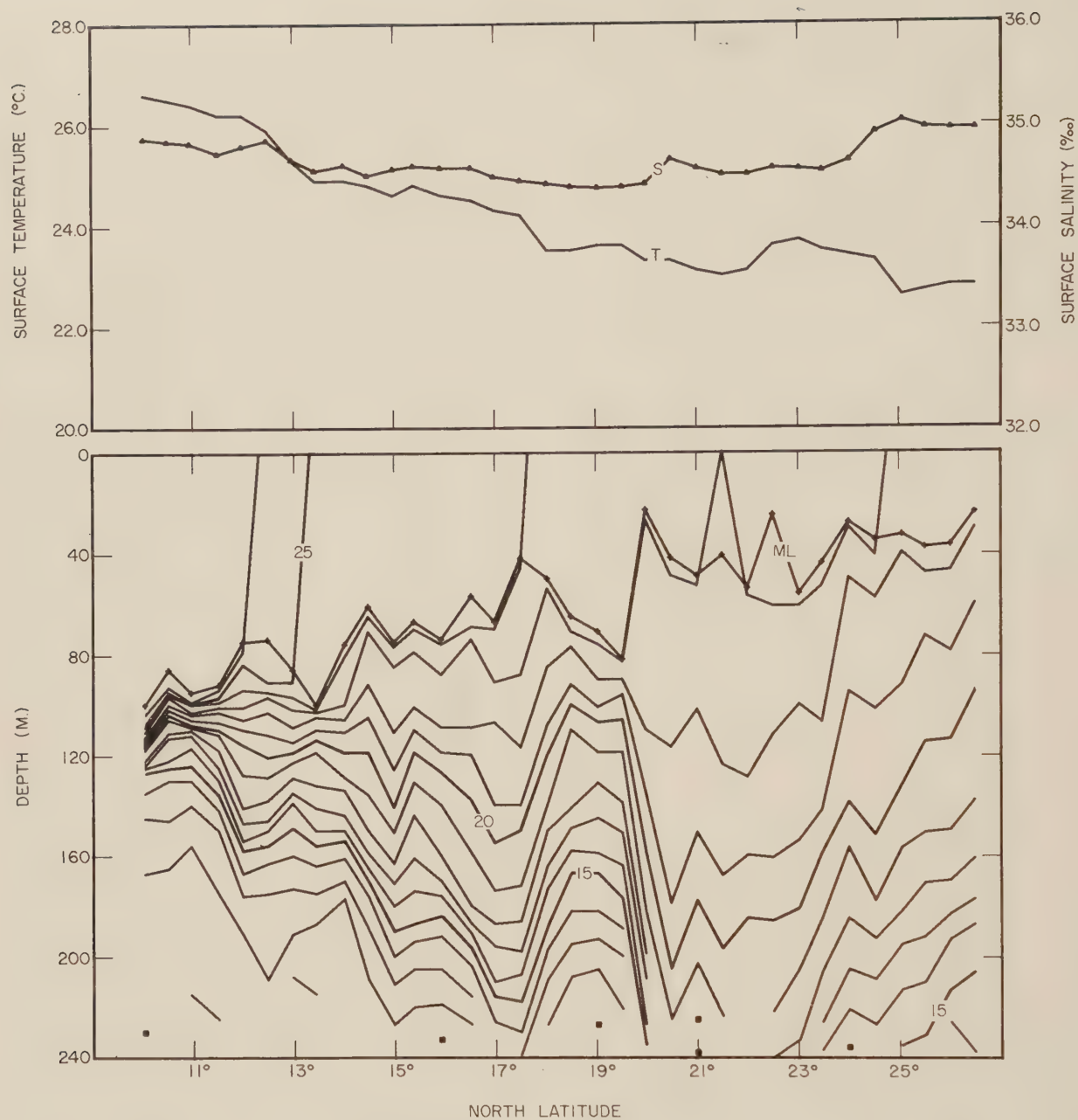


Figure 2.--Surface temperatures ($^{\circ}\text{C}.$) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 16 along long. 148°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

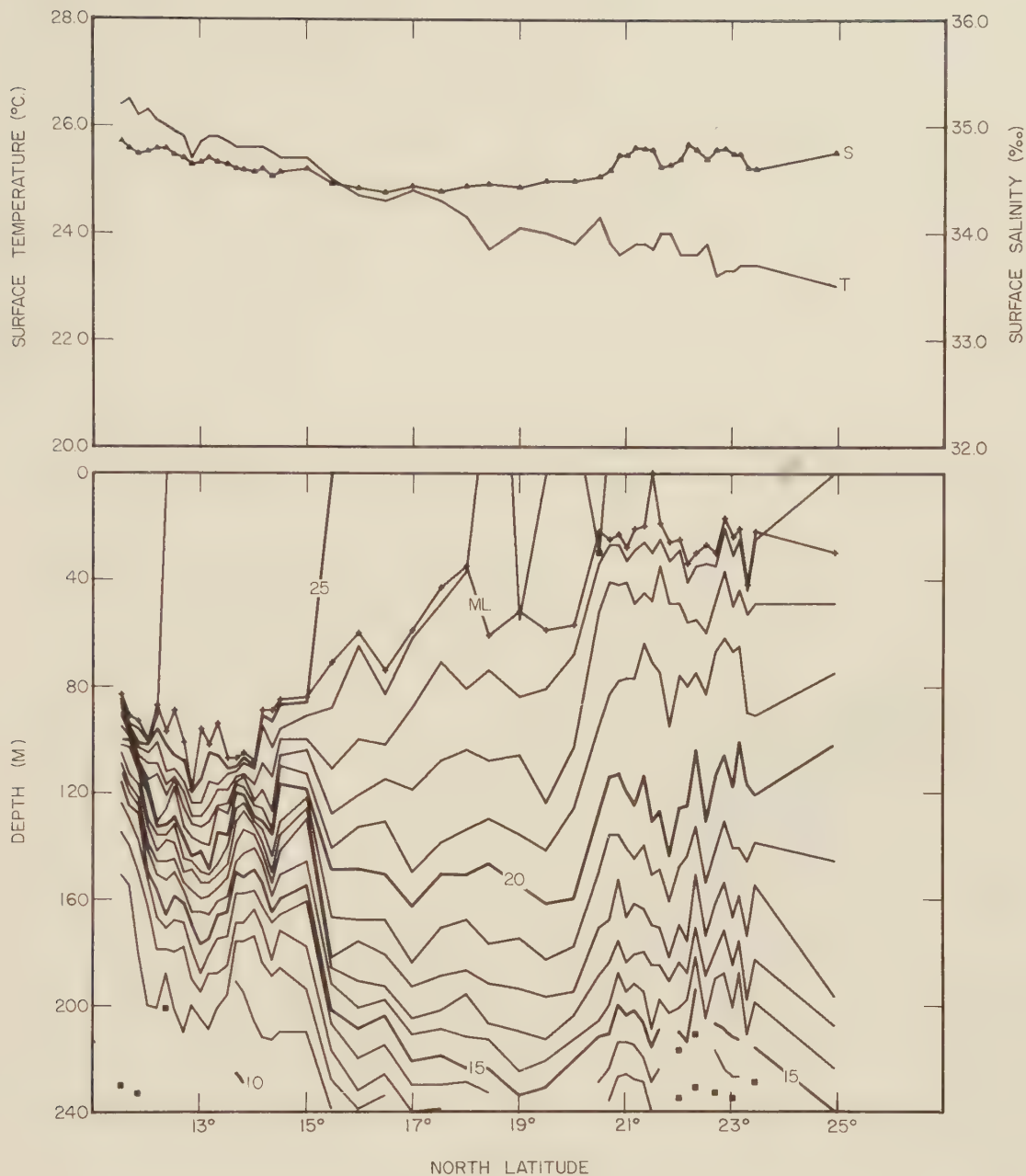


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

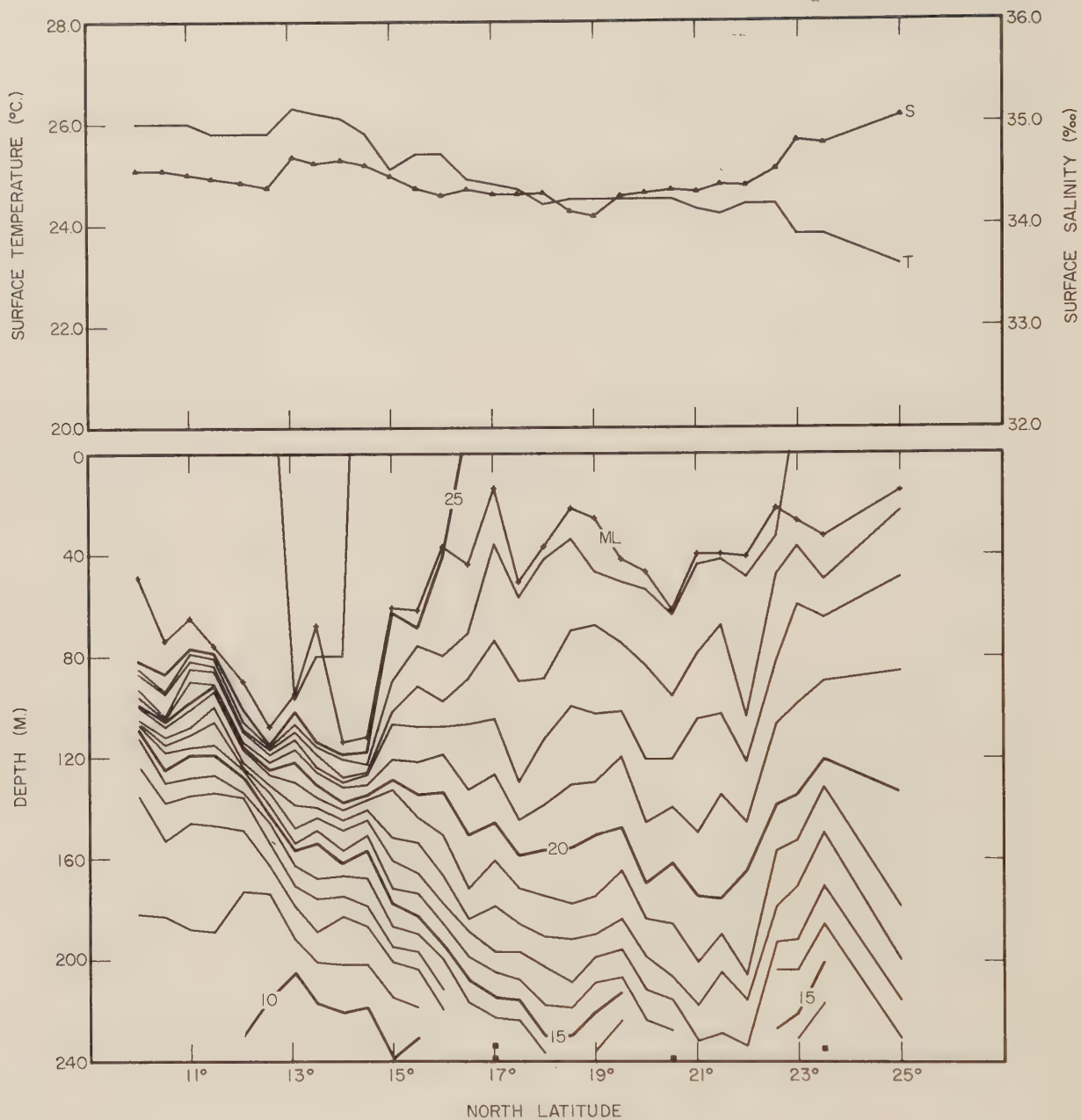


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

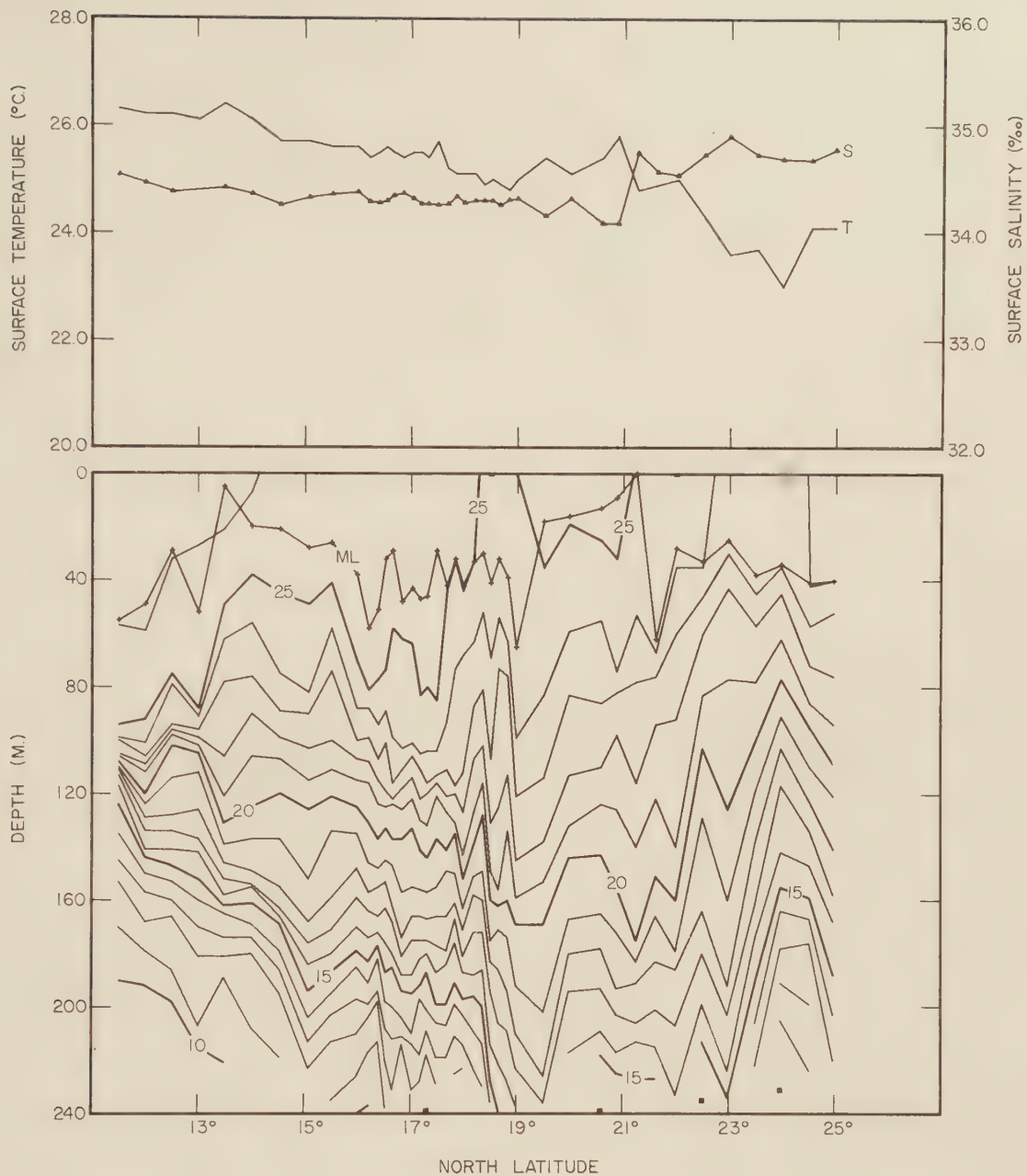


Figure 5.--Surface temperatures ($^{\circ}\text{C}.$) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 16 along long. 157°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

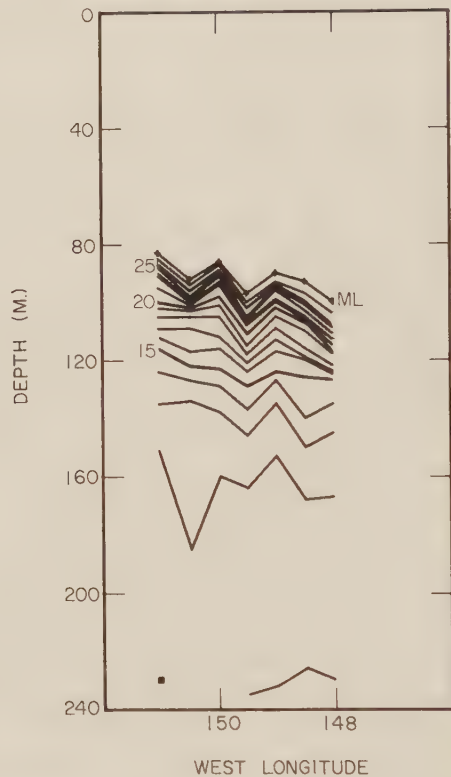
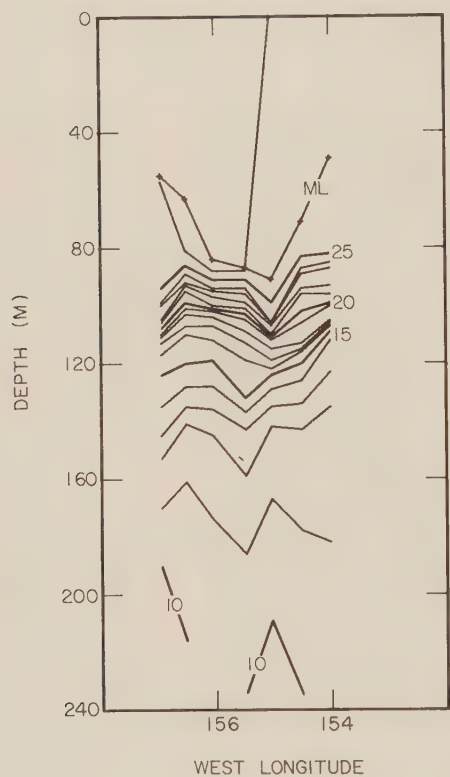
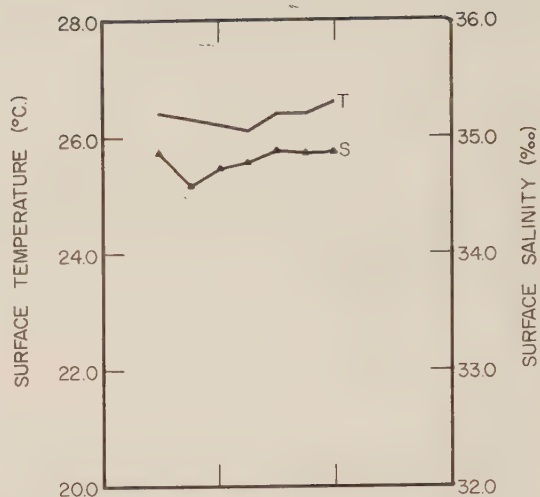
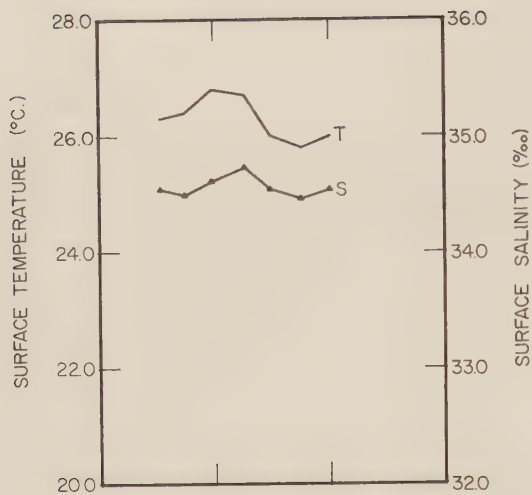


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

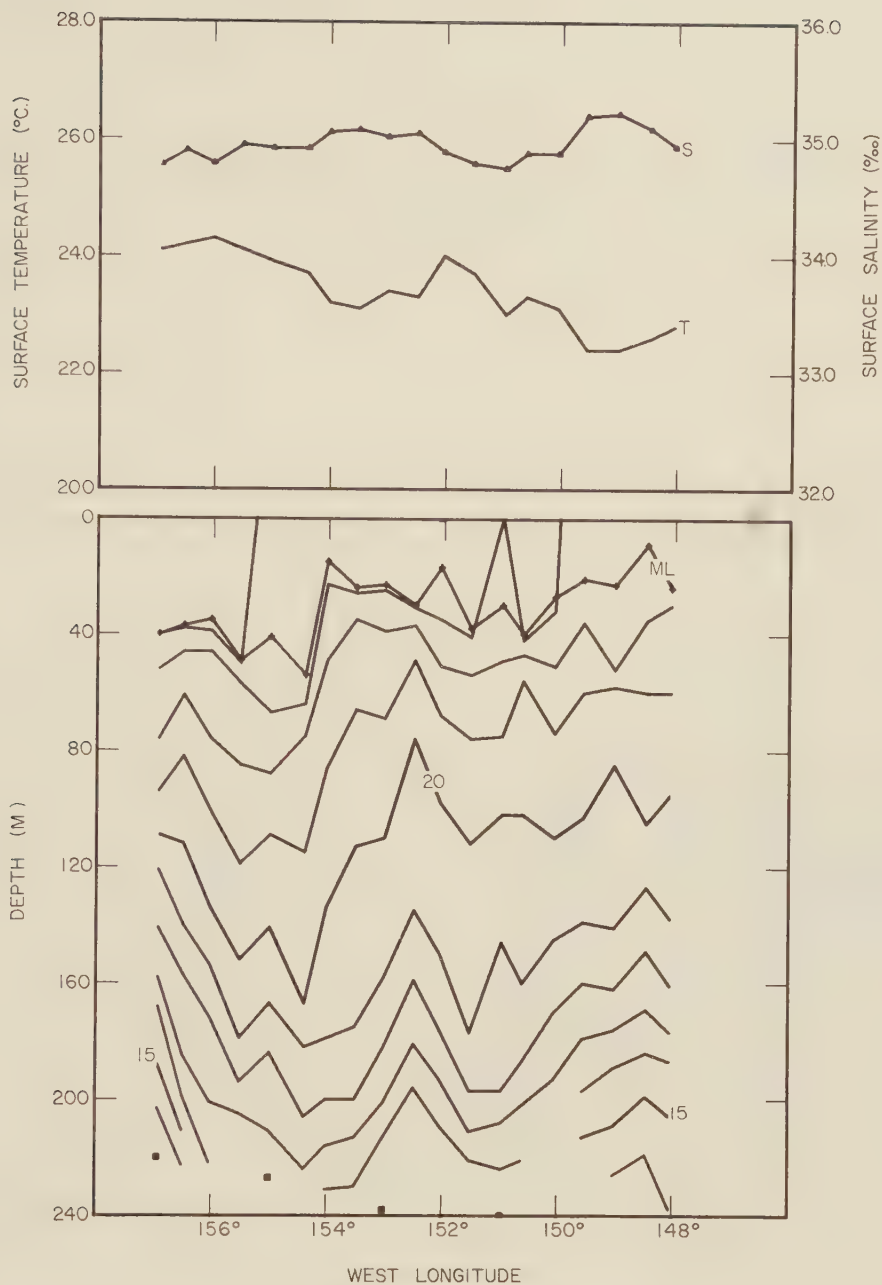


Figure 7.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

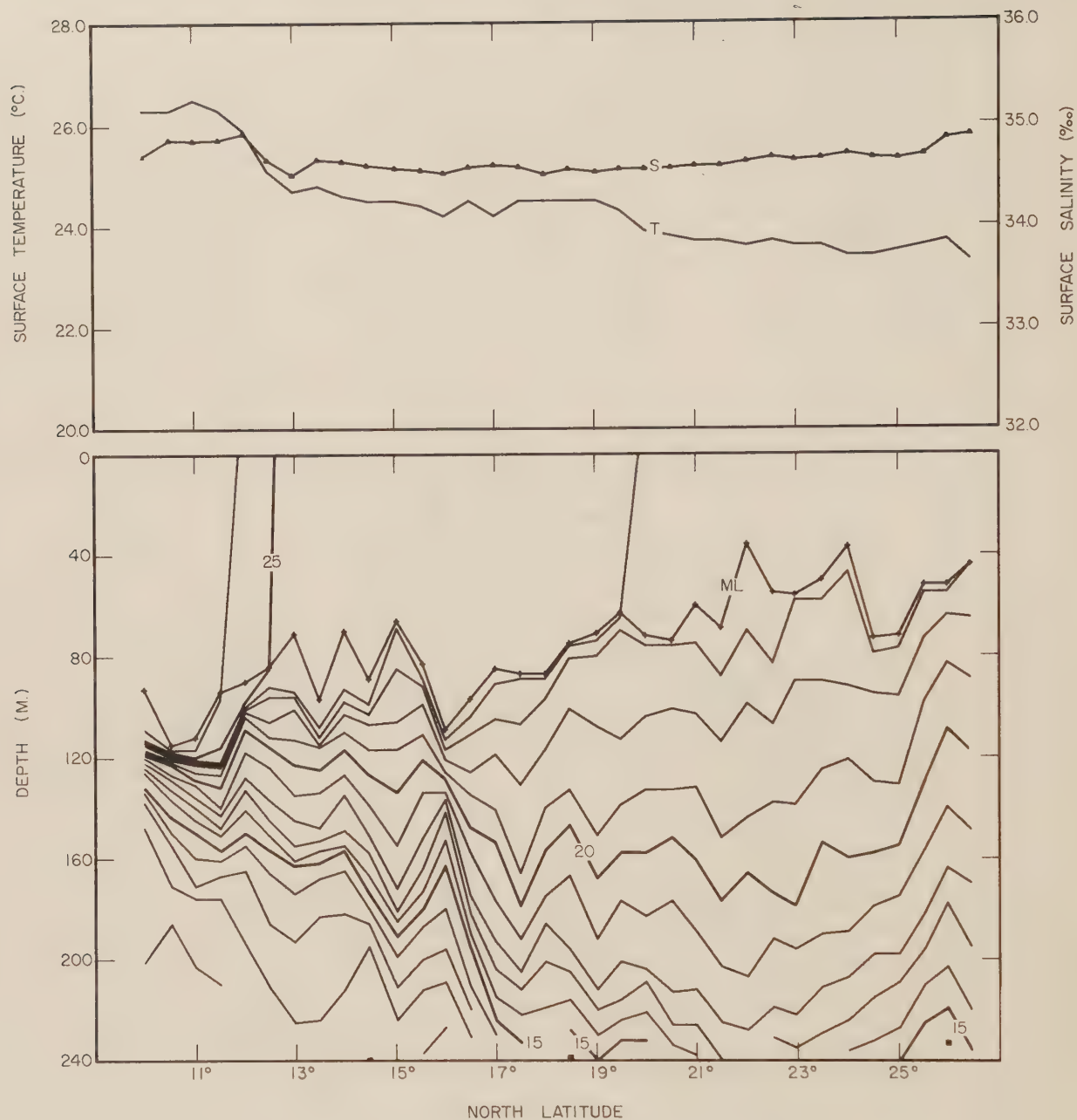


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

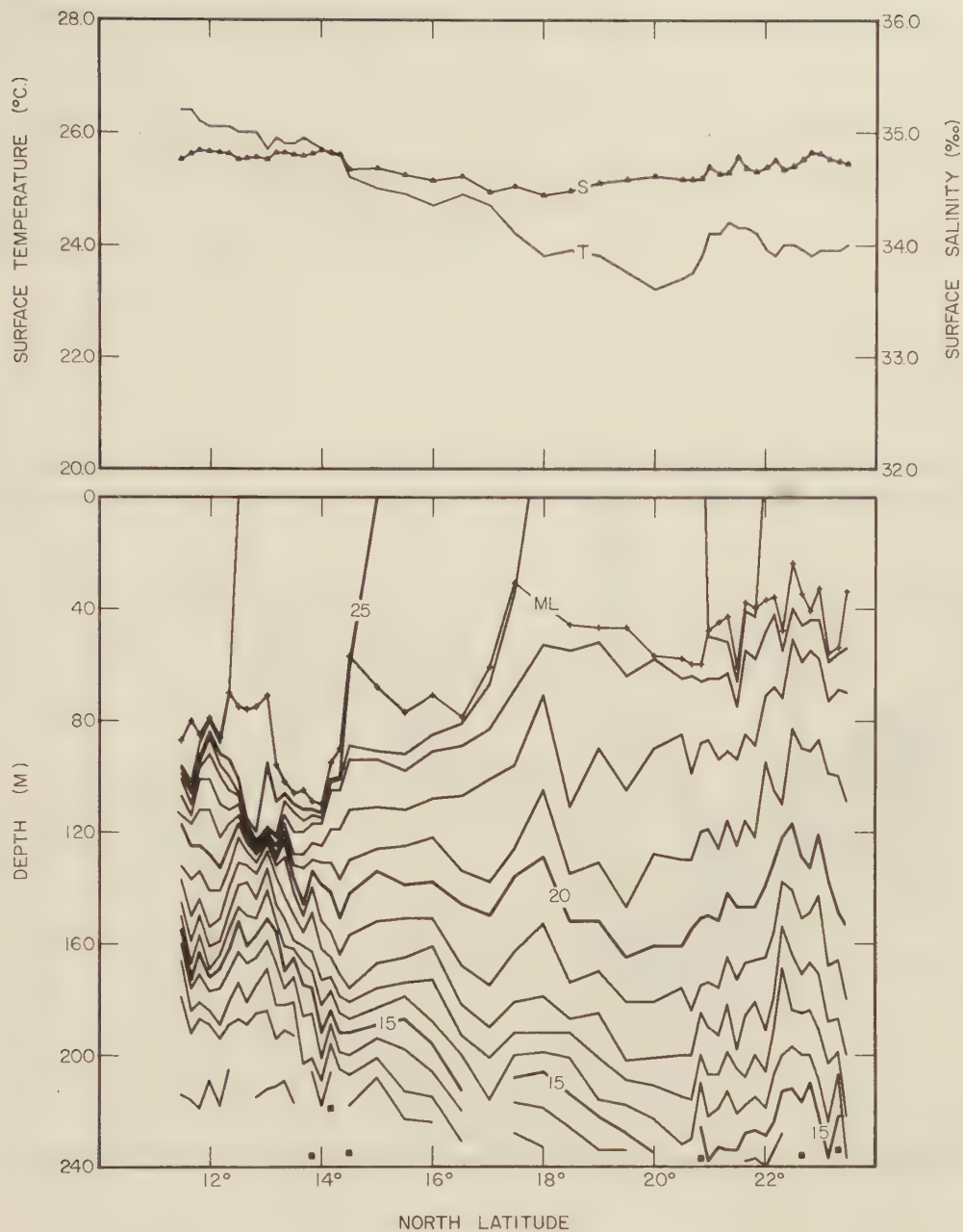


Figure 9.--Surface temperatures ($^{\circ}\text{C}.$) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 17 along long. $151^{\circ}\text{W}.$ The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

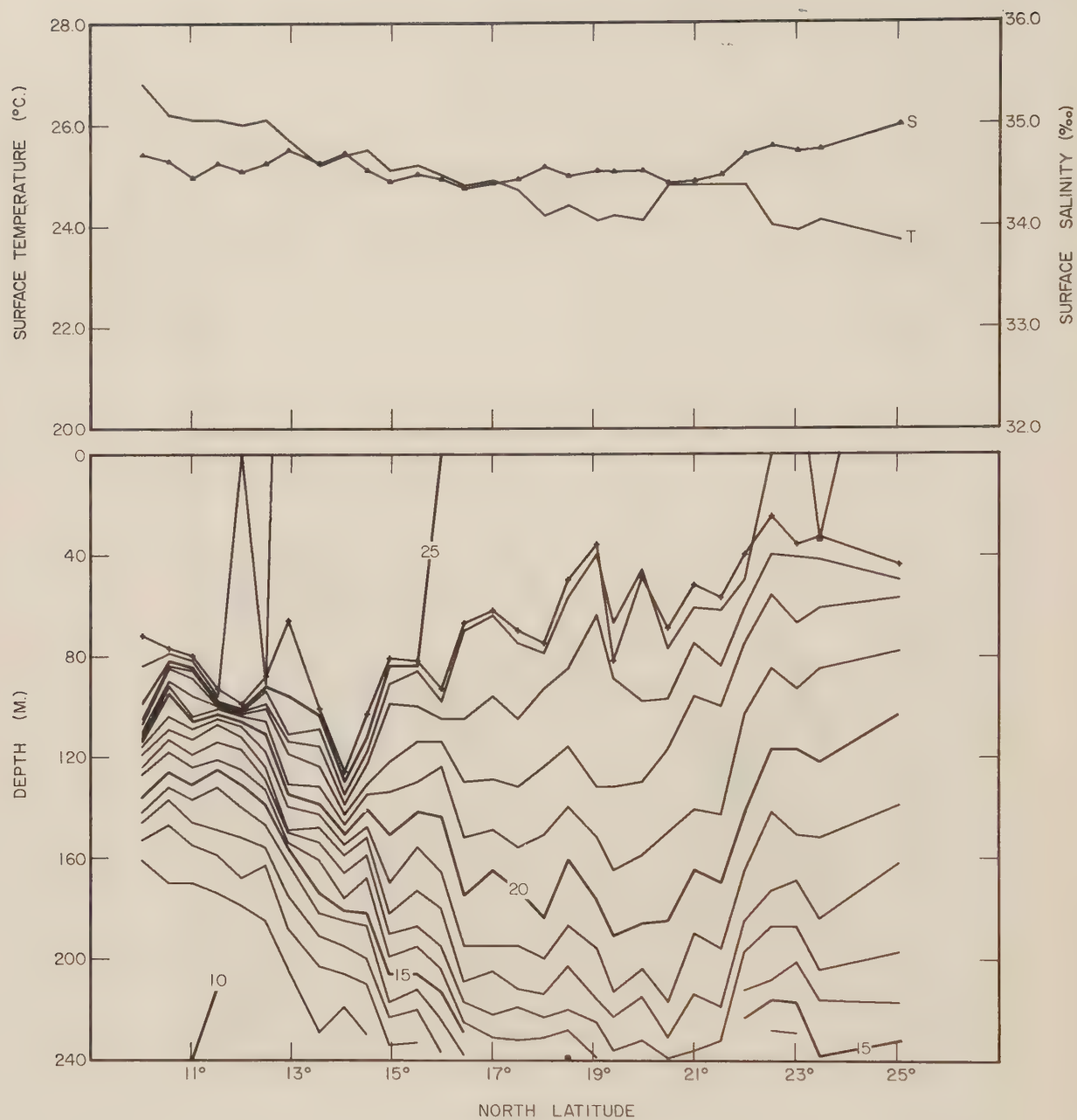


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

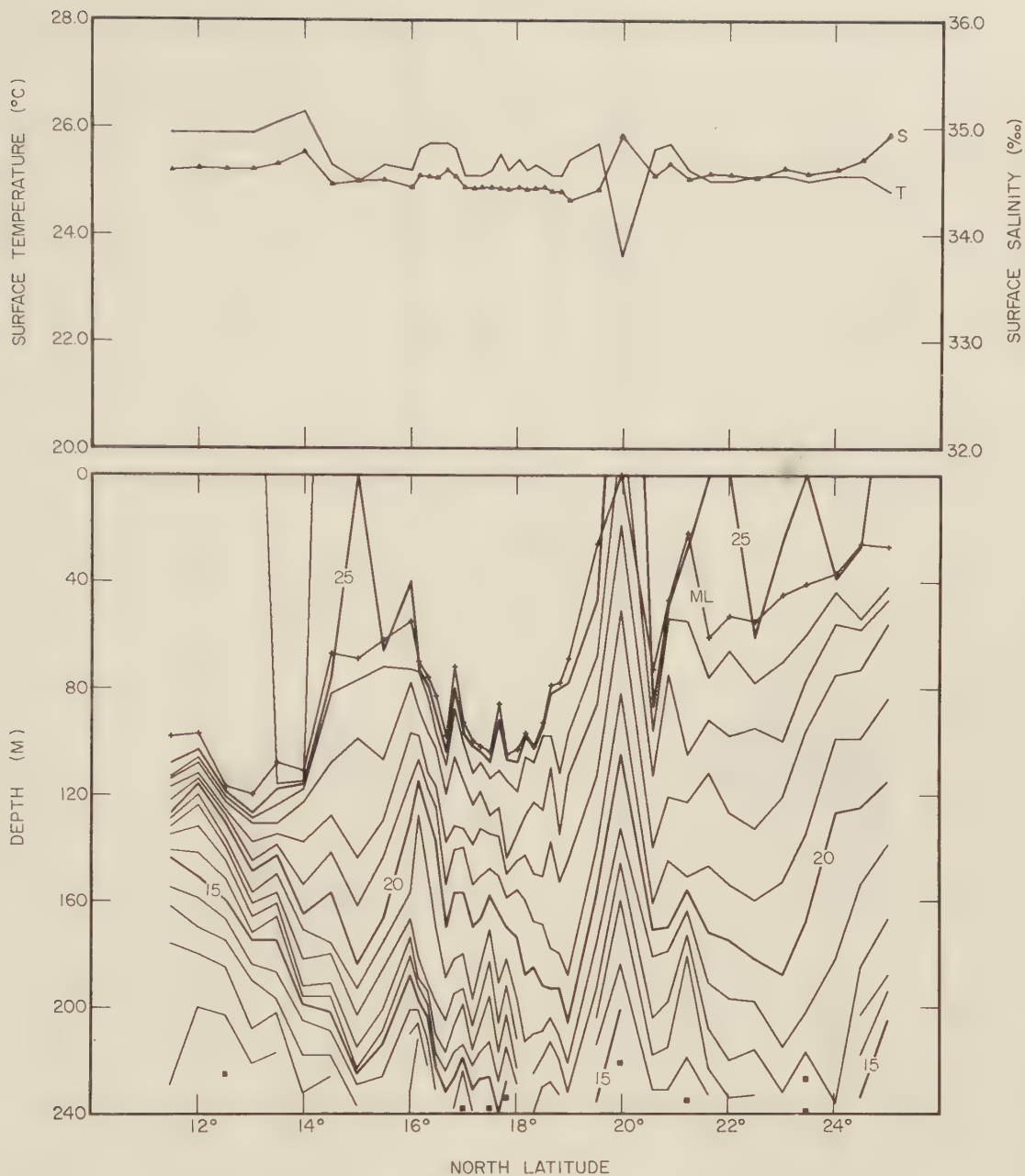


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

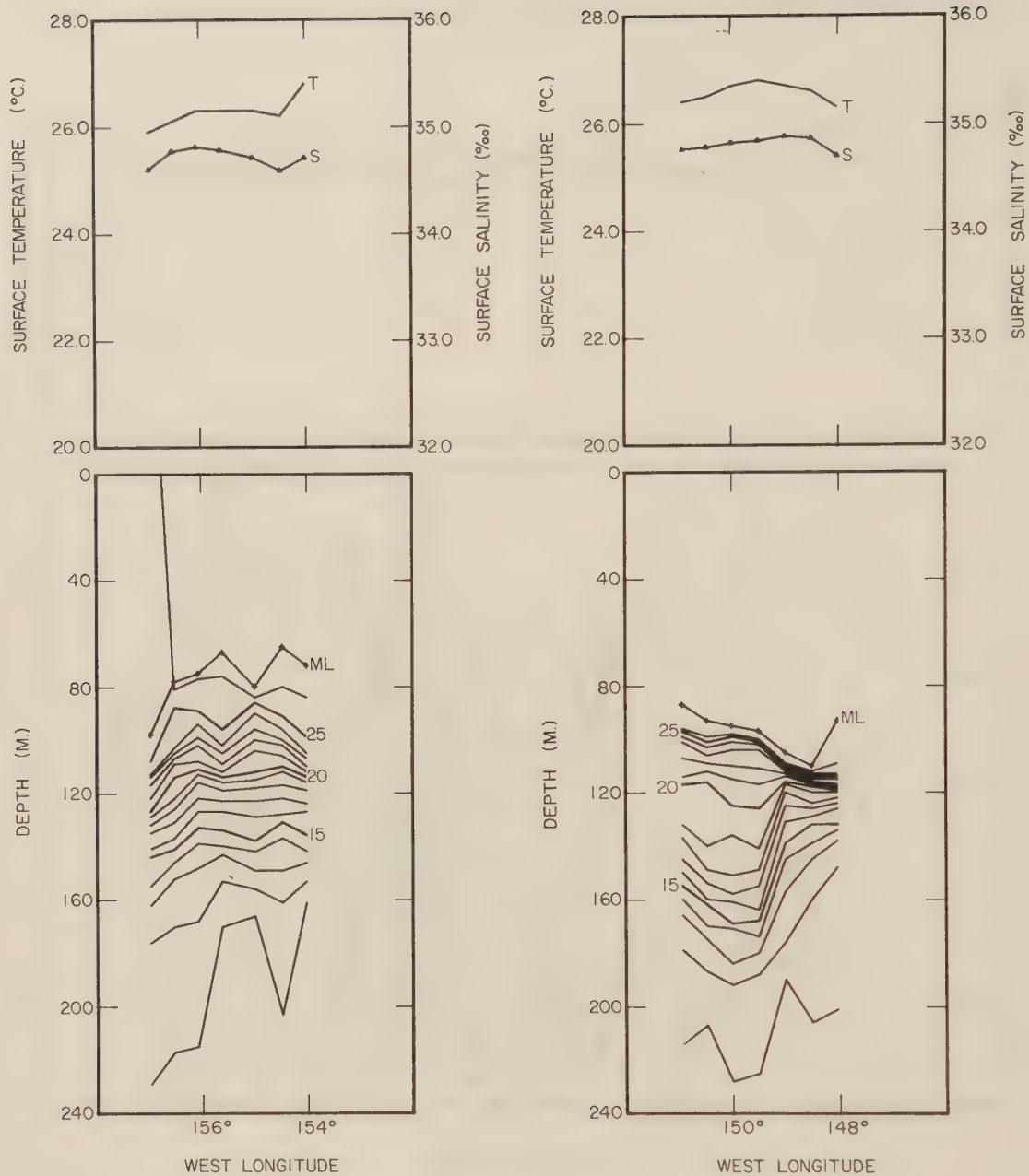


Figure 12.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

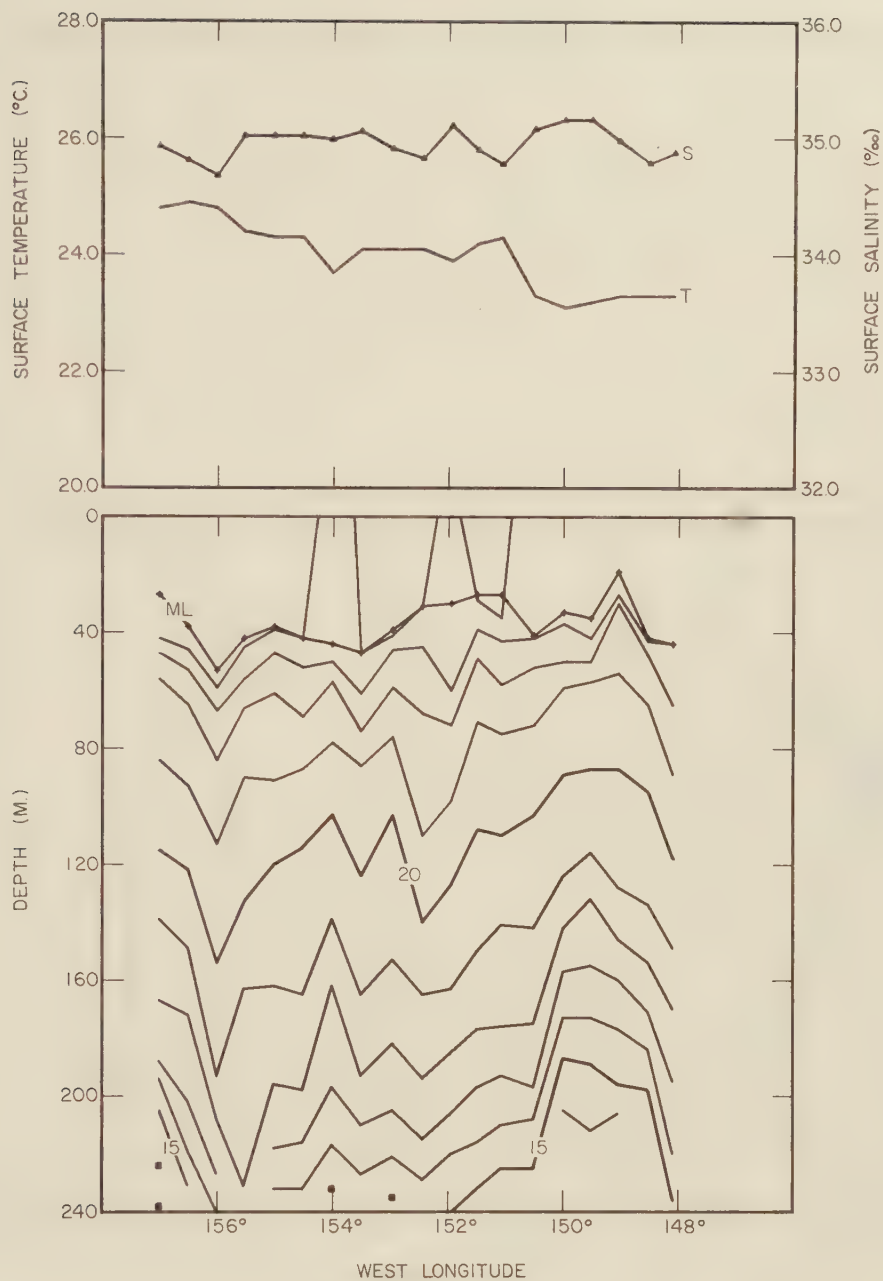


Figure 13.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

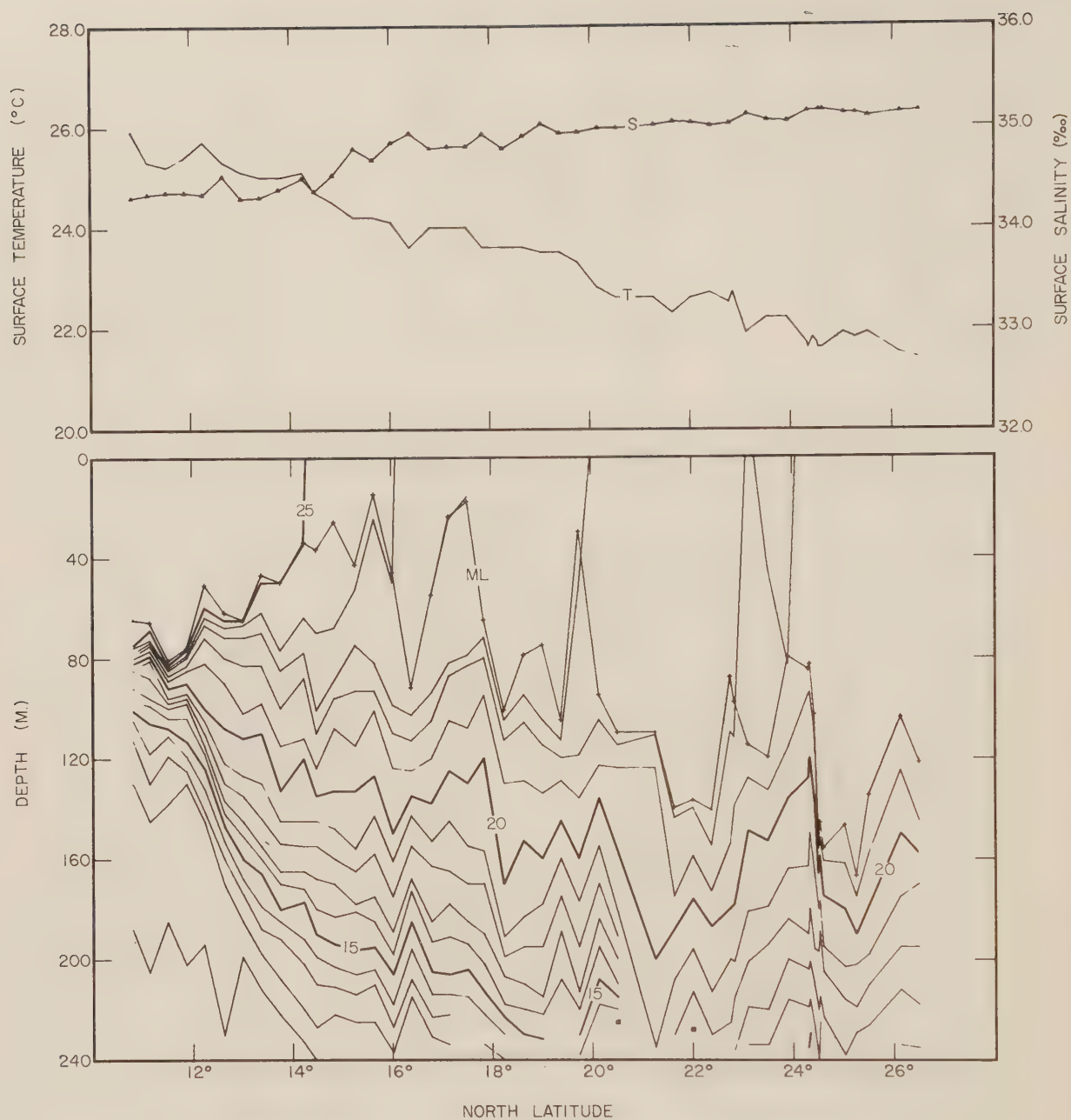


Figure 14.--Surface temperatures ($^{\circ}\text{C}$.) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 21 along long. 154°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

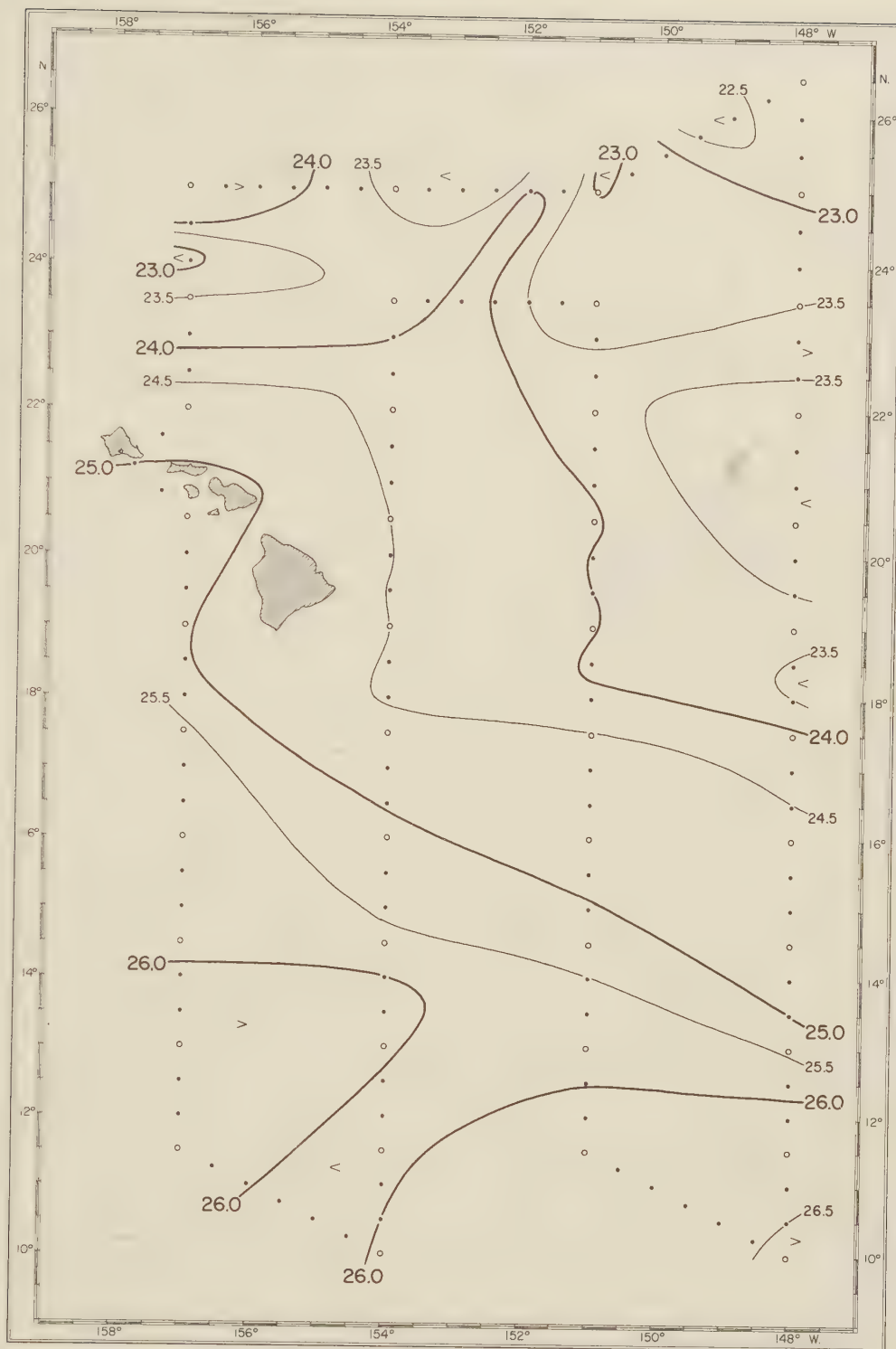


Figure 15.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 16.

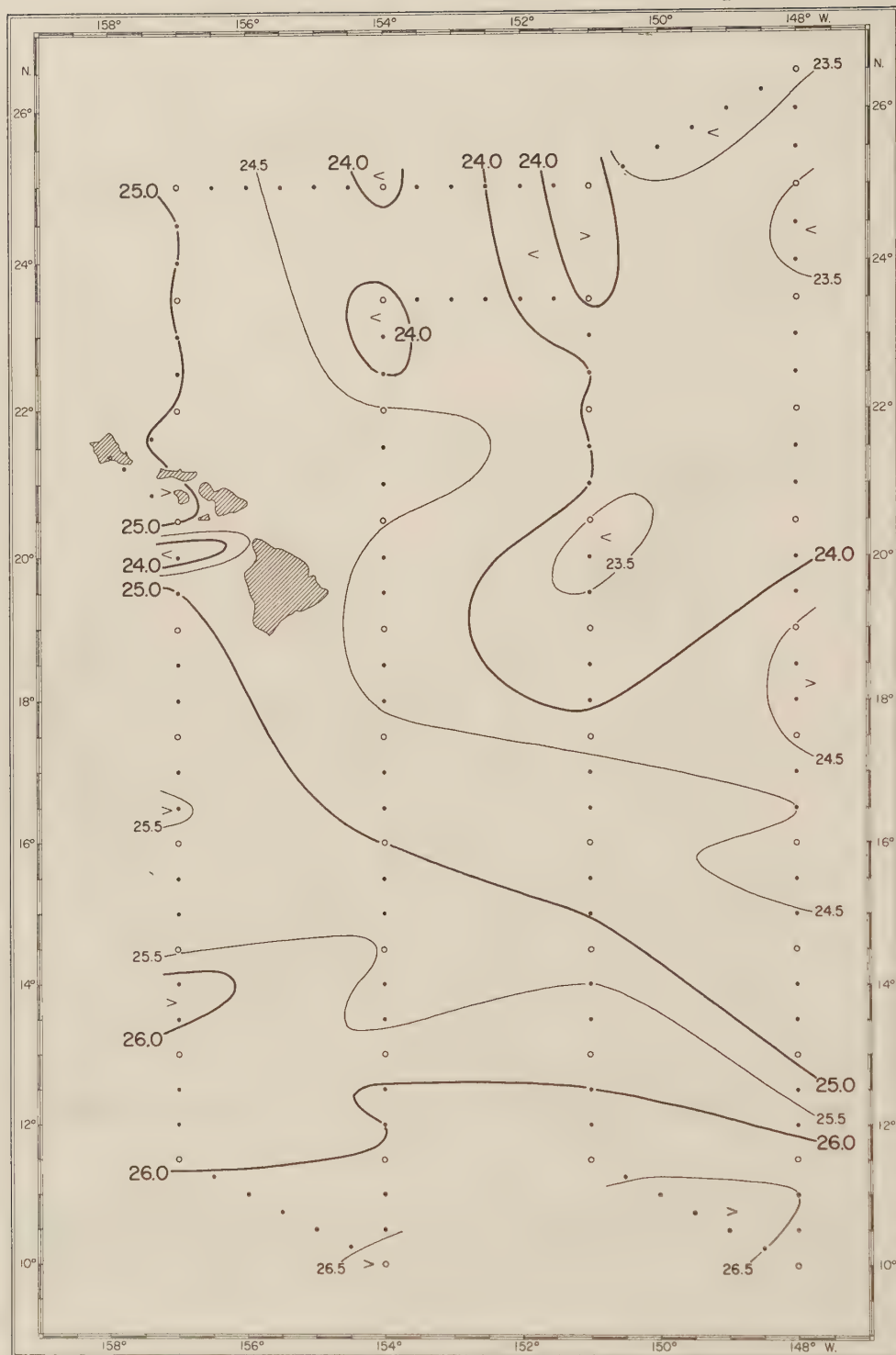


Figure 16.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 17.

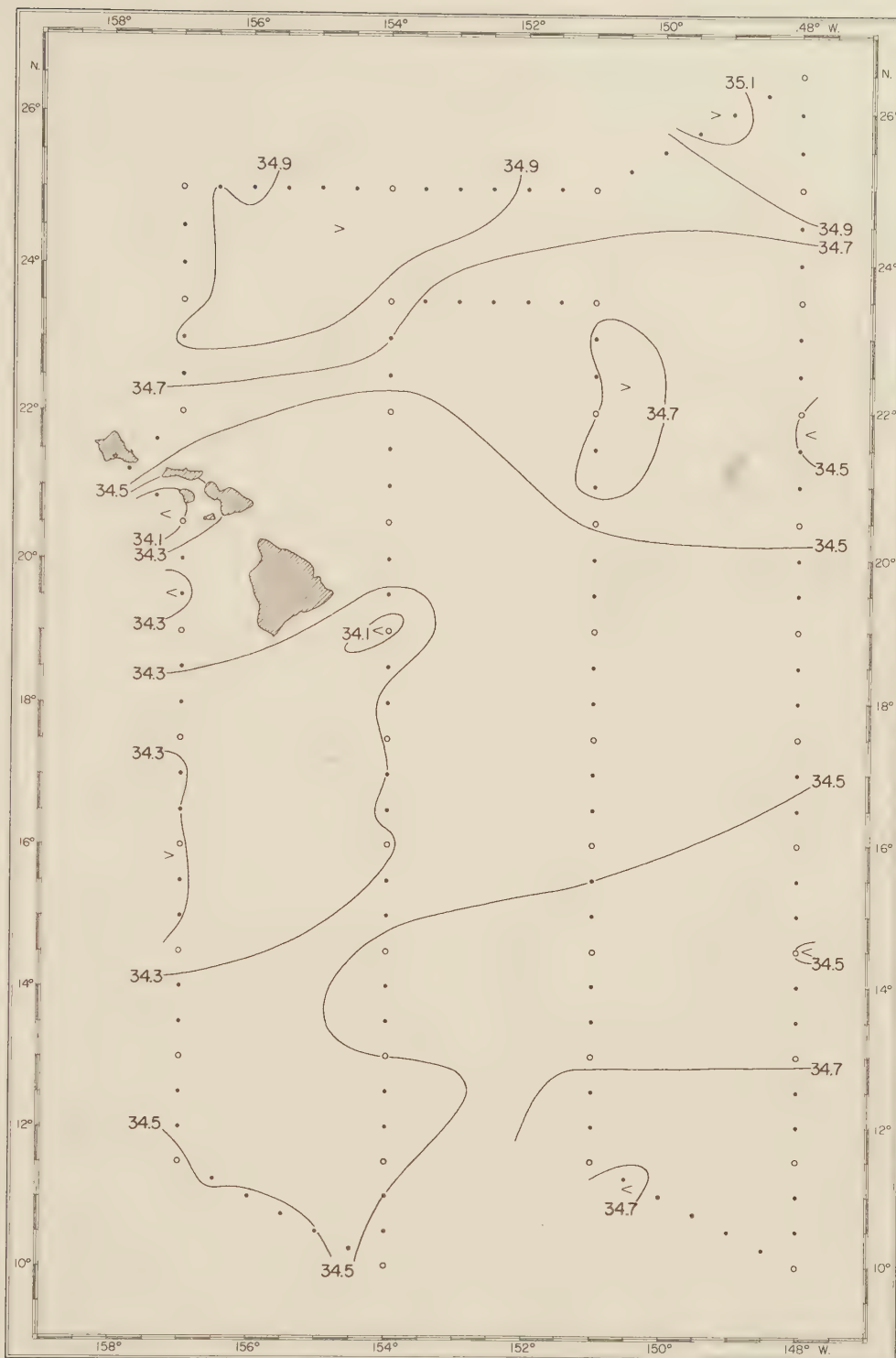


Figure 17.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 16.

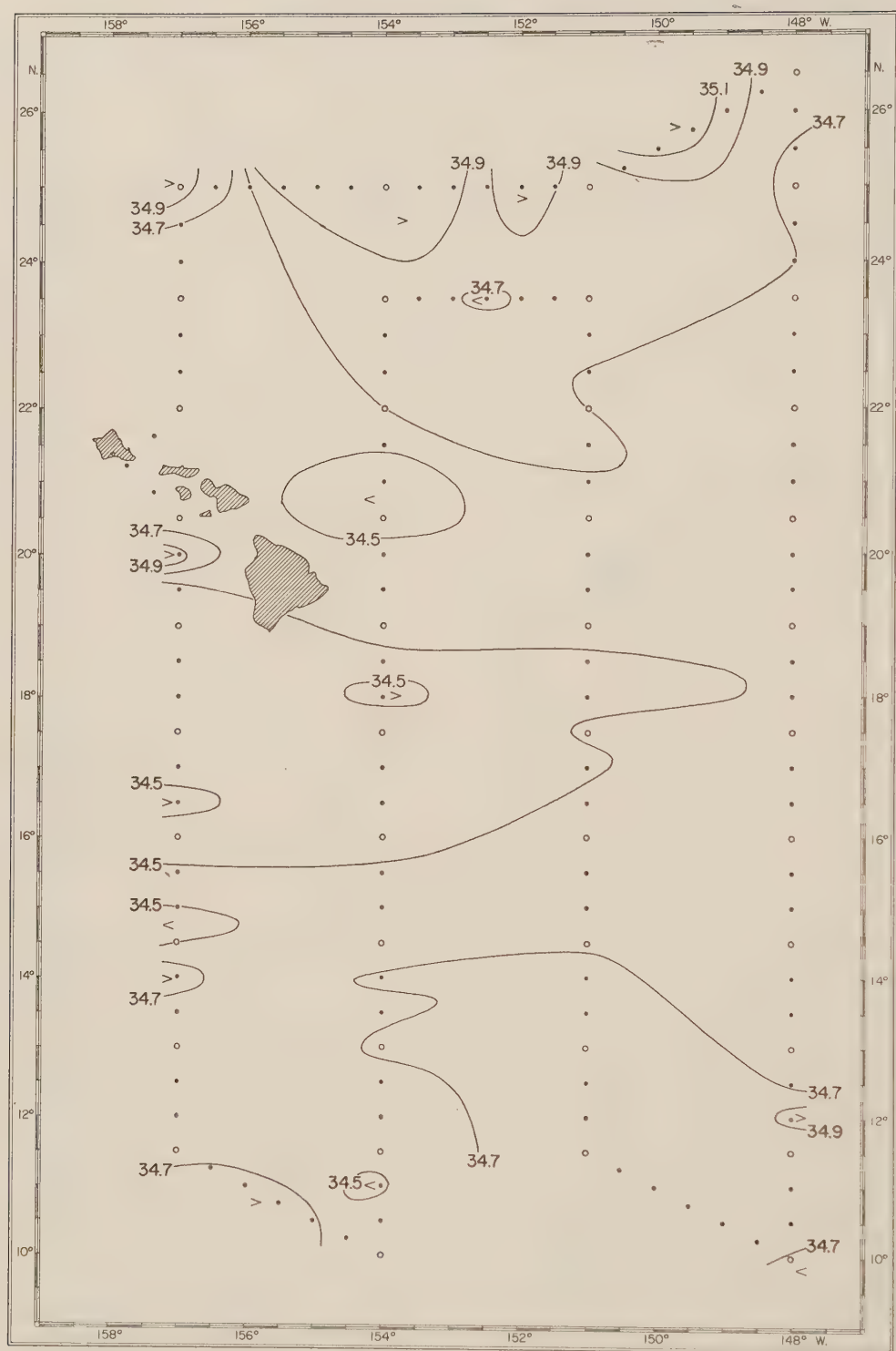


Figure 18.--Surface salinity distribution ($^{\circ}/_{\infty}$) from intake salinity samples at each BT cast for Townsend Cromwell cruise 17.

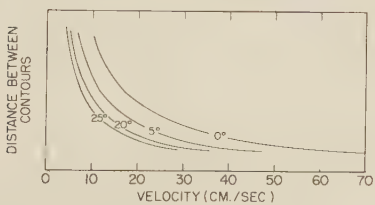
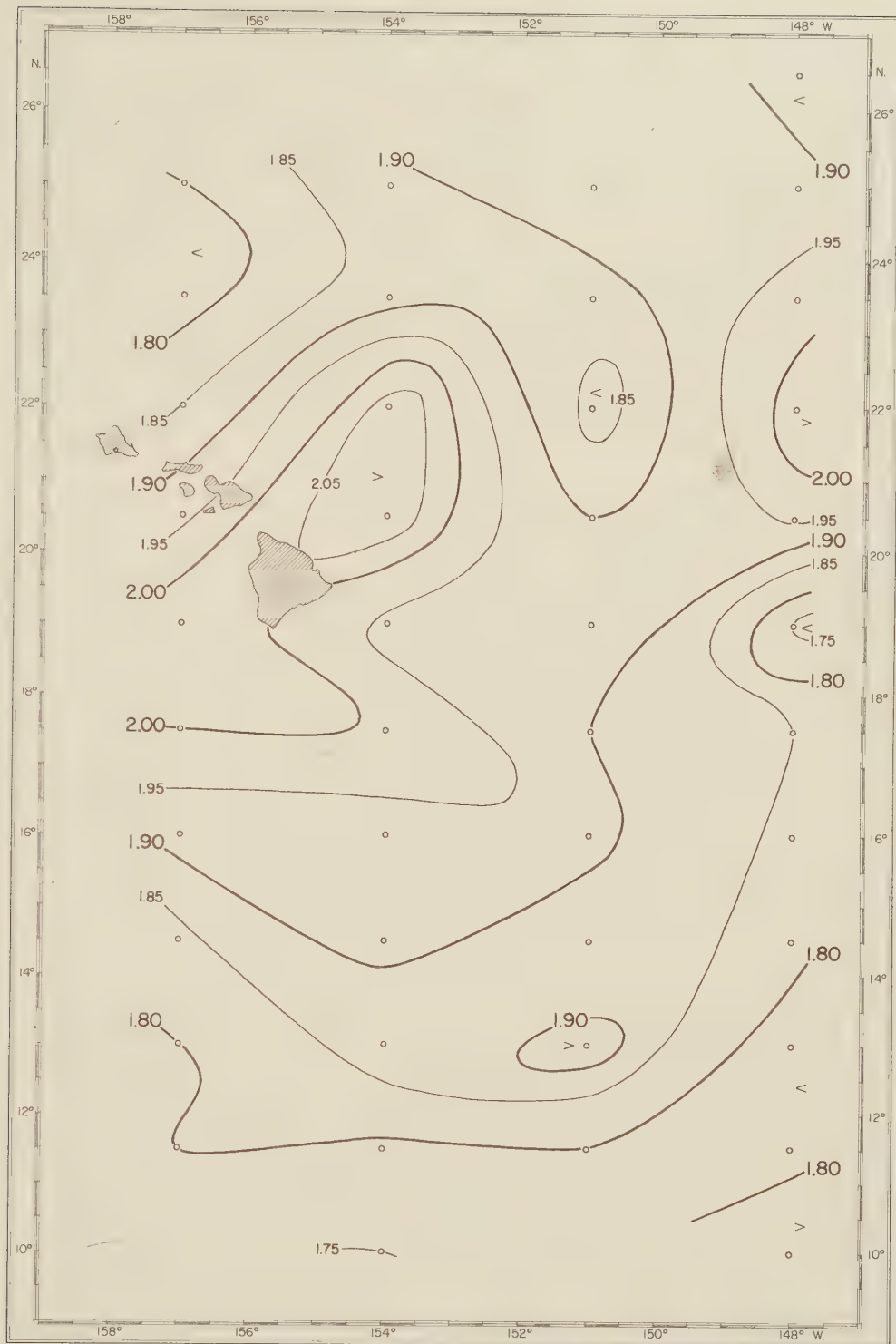


Figure 19.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 16.

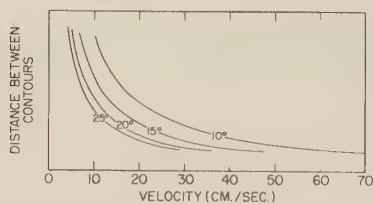
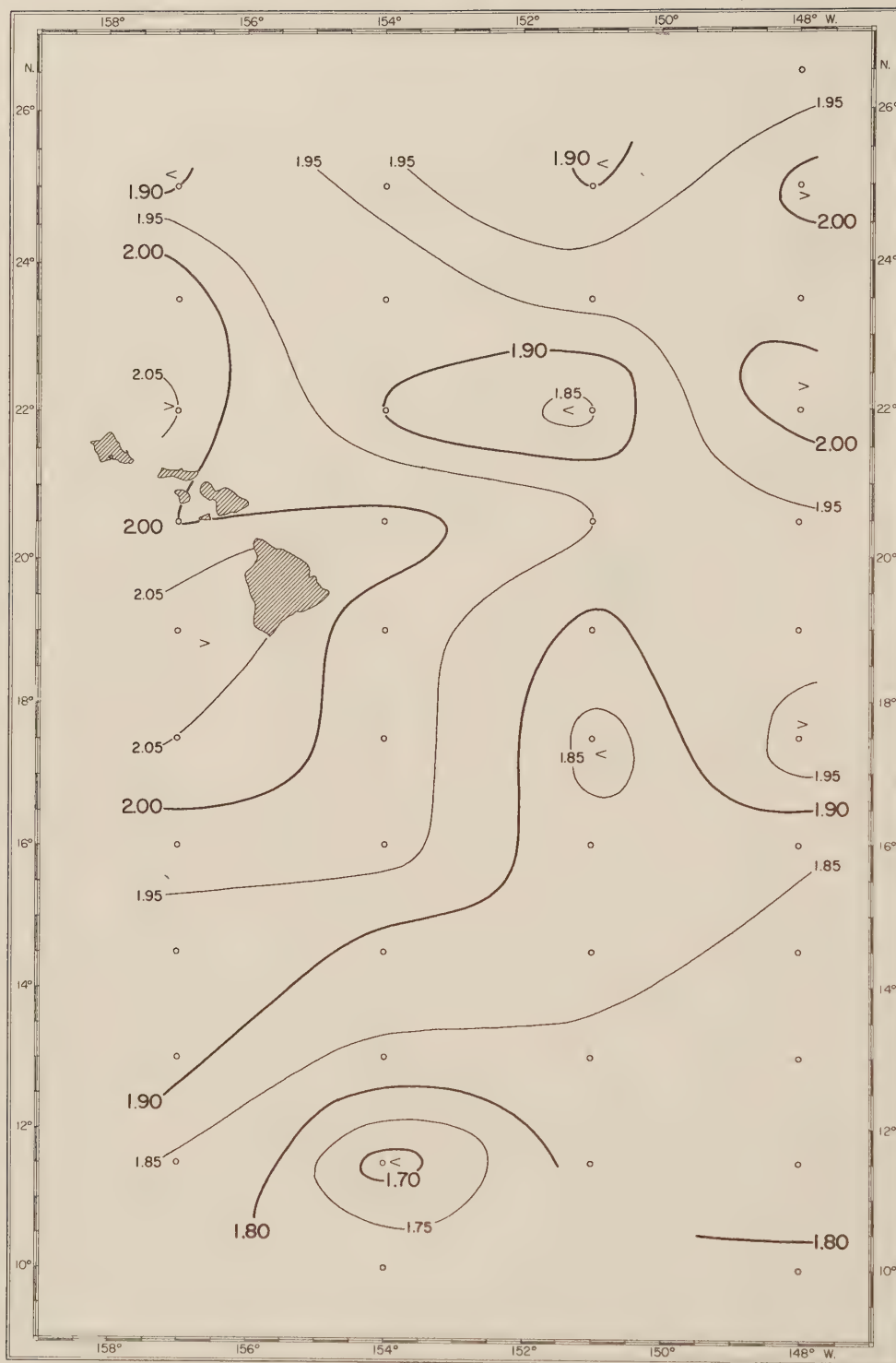


Figure 20.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 17.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as $\sigma\text{-t}$; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 16

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL 16, STATION 1, 20-35N LAT, 157-15W LONG, MAY 13, 1965, 0500 G.C.T.													
DRY BULB 23.7		WET BULB 21.1		WIND SPEED 09, DIR. 14		BAR. 16		WEATHER 21-		VIS. 8		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.37	34.11			22.58	527.7	0	25.37	34.11	22.58	527.7	0.000	
10	25.41	34.11			22.57	529.3	10	25.41	34.11	22.57	529.3	0.053	
50	24.01	34.90			23.58	433.6	20	25.19	34.28	22.76	511.2	0.106	
76	22.93	35.07			24.03	392.3	30	24.89	34.47	22.99	489.2	0.156	
100	22.17	35.12			24.28	368.9	50	24.01	34.90	23.58	433.6	0.249	
124	20.85	35.11			24.64	335.7	75	22.97	35.07	24.01	393.6	0.353	
150	19.47	35.01			24.93	308.9	100	22.17	35.12	24.28	368.9	0.449	
174	17.82	34.84			25.21	282.2	150	19.47	35.01	24.93	308.9	0.620	
199	16.63	34.71			25.40	265.1	200	16.57	34.70	25.41	264.2	0.764	
225	14.95	34.53			25.64	242.4	250	13.58	34.43	25.85	222.3	0.887	
250	13.58	34.43			25.85	222.3	300	10.79	34.20	26.21	188.3	0.991	
275	11.67	34.26			26.10	199.0	400	8.19	34.17	26.61	150.3	1.161	
300	10.79	34.20			26.21	188.3	500	6.51	34.20	26.88	125.5	1.301	
399	8.21	34.17			26.61	150.6	600	5.68	34.30	27.06	108.4	1.419	
500	6.51	34.20			26.88	125.5	700	5.06	34.39	27.21	95.0	1.522	
599	5.69	34.30			27.06	108.6	800	4.62	34.46	27.31	85.4	1.613	
799	4.62	34.46			27.31	85.5	1000	4.17	34.51	27.40	78.2	1.778	
999	4.17	34.51			27.40	78.2	1200	3.52	34.55	27.50	69.1	1.927	
1200	3.52	34.55			27.50	69.1	1500	2.81	34.60	27.60	59.0	2.122	
1501	2.81	34.60			27.60	58.9							
SALINITY ERROR TERM AT 20. METERS IS 0.06													
SALINITY ERROR TERM AT 30. METERS IS 0.08													

CROMWELL 16, STATION 2, 18-59N LAT, 157-15W LONG, MAY 13, 1965, 1500 G.C.T.														
DRY BULB 23.5	WET BULB 21.9	WIND SPEED 18, DIR. 13	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 6,	COVER 6							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.11	34.33			22.82	504.3	0	25.11	34.33	22.82	504.3	0.000		
9	25.11	34.34			22.83	503.9	10	25.10	34.34	22.84	503.5	0.051		
46	24.82	34.51			23.05	484.7	20	25.04	34.38	22.88	499.3	0.101		
69	24.70	34.59			23.14	476.4	30	24.97	34.43	22.94	494.3	0.151		
91	24.04	34.68			23.41	451.9	50	24.82	34.52	23.06	483.8	0.250		
114	23.21	34.91			23.83	413.0	75	24.55	34.61	23.20	471.1	0.370		
136	22.56	35.05			24.12	385.9	100	23.71	34.77	23.57	436.8	0.484		
159	20.67	34.93			24.55	345.3	150	21.44	34.99	24.38	361.0	0.686		
183	19.43	34.92			24.87	315.6	200	18.56	34.87	25.05	298.6	0.852		
205	18.25	34.84			25.11	293.4	250	14.53	34.45	25.67	240.1	0.988		
228	16.08	34.59			25.43	262.5	300	11.48	34.22	26.10	198.8	1.098		
250	14.53	34.45			25.67	240.1	400	7.89	34.12	26.62	149.2	1.274		
273	13.05	34.32			25.88	220.5	500	6.57	34.20	26.87	126.2	1.413		
363	8.72	34.13			26.50	160.7	600	5.68	34.31	27.07	108.0	1.531		
455	7.16	34.16			26.76	136.9	700	5.19	34.40	27.20	96.2	1.634		
545	6.08	34.25			26.97	116.7	800	4.82	34.46	27.29	88.1	1.727		
729	5.10	34.42			27.23	93.7	1000	4.10	34.53	27.42	76.1	1.894		
912	4.43	34.50			27.36	81.3	1200	3.51	34.56	27.51	68.3	2.040		
1054	3.91	34.54			27.45	73.3								
1284	3.31	34.56			27.53	66.4								

CROMWELL 16, STATION 3, 17-29N LAT, 156-59W LONG, MAY 14, 1965, 0000 G.C.T.														
DRY BULB 26.0	WET BULB 22.8	WIND SPEED 18, DIR. 14	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE 6,	COVER 6							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.58	34.26			22.63	523.1	0	25.58	34.26	22.63	523.1	0.000		
10	25.54	34.26			22.64	522.3	10	25.54	34.26	22.64	522.3	0.053		
51	25.21	34.23			22.72	516.4	20	25.46	34.25	22.66	520.9	0.105		
77	25.18	34.26			22.75	514.4	30	25.37	34.24	22.68	519.5	0.158		
101	24.02	34.32			23.14	477.7	50	25.22	34.23	22.72	516.5	0.262		
125	20.35	34.72			24.48	351.1	75	25.20	34.26	22.74	515.2	0.392		
152	18.80	34.79			24.93	308.5	100	24.10	34.31	23.11	480.5	0.517		
176	16.78	34.60			25.28	275.7	150	18.88	34.80	24.92	309.9	0.716		
202	14.13	34.34			25.67	238.6	200	14.33	34.36	25.64	241.3	0.855		
227	12.43	34.24			25.94	213.4	250	11.31	34.26	26.16	192.3	0.965		
278	10.25	34.33			26.18	190.6	300	9.78	34.38	26.53	157.7	1.053		
303	9.73	34.39			26.41	169.0	400	8.66	34.48	26.79	134.6	1.200		
404	8.63	34.48			26.54	156.5	500	7.74	34.51	26.95	120.2	1.329		
507	7.68	34.51			26.79	134.2	600	7.01	34.51	27.05	111.0	1.446		
607	6.96	34.51			26.96	119.4	700	6.36	34.51	27.14	103.0	1.554		
813	5.71	34.52			27.06	110.5	800	5.78	34.52	27.22	96.1	1.655		
1009	4.77	34.51			27.23	95.3	1000	4.81	34.51	27.33	86.2	1.839		
1212	4.00	34.55			27.33	85.9	1200	4.04	34.55	27.44	75.7	2.003		
1514	3.10	34.59			27.45	75.1	1500	3.13	34.59	27.57	63.8	2.215		
					27.57	63.3								

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL 16, STATION 4, 15-59N LAT, 157- 0W LONG, MAY 14, 1965, 1100 G.C.T.						14, 1965, 1100 G.C.T.						
DRY BULB 24.9	WET BULB 23.2	WIND SPEED 15, DIR. 16		BAR. 14		WEATHER 02		VIS. 7	CLOUD TYPE 6, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.71	34.36			22.66	519.7	0	25.71	34.36	22.66	519.7	0.000
10	25.73	34.37			22.66	519.9	10	25.73	34.37	22.66	519.9	0.052
52	25.30	34.43			22.84	504.6	20	25.67	34.39	22.69	517.4	0.105
77	25.02	34.44			22.93	496.7	30	25.58	34.40	22.73	514.1	0.157
101	22.66	34.81			23.91	404.6	50	25.33	34.43	22.83	505.6	0.259
127	19.29	34.71			24.74	325.4	75	25.08	34.43	22.91	499.1	0.386
153	17.07	34.58			25.19	283.1	100	22.79	34.80	23.86	409.0	0.500
177	15.08	34.47			25.56	248.1	150	17.30	34.60	25.15	287.0	0.676
203	12.51	34.26			26.15	192.8	200	12.79	34.28	25.90	216.3	0.802
228	11.22	34.22			26.35	173.8	250	10.08	34.19	26.33	175.9	0.901
253	9.95	34.19			26.49	160.3	300	9.14	34.30	26.57	153.2	0.984
278	9.59	34.30			26.58	152.2	400	8.01	34.41	26.83	129.6	1.127
304	9.05	34.30			26.84	128.9	500	7.59	34.52	26.98	116.9	1.251
404	7.99	34.42			26.89	116.2	600	6.83	34.52	27.09	107.5	1.365
508	7.56	34.53			26.99	106.8	700	6.12	34.51	27.17	100.0	1.470
609	6.75	34.52			27.10	93.0	800	5.55	34.51	27.24	93.7	1.567
811	5.49	34.51			27.25	82.6	1000	4.79	34.55	27.36	83.2	1.746
1014	4.74	34.55			27.37	75.3	1200	4.01	34.56	27.46	74.2	1.906
1166	4.05	34.55			27.45							
1406	3.41	34.58			27.53							

CROMWELL 16, STATION 5, 14-32N LAT, 157- 2W LONG, MAY 14, 1965, 2000 G.C.T.						14, 1965, 2000 G.C.T.						
DRY BULB 26.5	WET BULB 24.0	WIND SPEED 14, DIR. 14		BAR. 15		WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.81	34.25			22.55	530.6	0	25.81	34.25	22.55	530.6	0.000
10	25.80	34.25			22.55	530.7	10	25.80	34.25	22.55	530.7	0.053
50	24.76	34.40			22.98	491.1	20	25.62	34.26	22.61	525.4	0.107
75	24.02	34.72			23.44	447.8	30	25.39	34.28	22.70	517.1	0.159
100	21.07	34.96			24.46	351.4	50	24.76	34.40	22.98	491.1	0.261
125	19.45	34.90			24.85	315.5	75	24.02	34.72	23.44	447.8	0.379
150	18.55	34.90			25.08	294.4	100	21.07	34.96	24.46	351.4	0.480
175	14.63	34.41			25.62	243.0	150	18.55	34.90	25.08	294.4	0.642
200	12.18	34.29			26.02	204.4	200	12.18	34.29	26.02	204.4	0.768
226	11.35	34.48			26.33	175.9	250	11.01	34.62	26.50	160.2	0.860
250	11.01	34.62			26.50	160.2	300	10.23	34.65	26.66	145.7	0.937
276	10.70	34.67			26.59	151.7	400	8.76	34.59	26.86	128.1	1.075
299	10.25	34.65			26.66	146.0	500	7.73	34.56	26.99	116.3	1.199
400	8.76	34.59			26.86	128.1	600	6.89	34.52	27.08	108.6	1.312
500	7.73	34.56			26.99	116.3	700	6.15	34.51	27.17	100.4	1.418
601	6.88	34.52			27.08	108.5	800	5.53	34.52	27.25	92.7	1.515
801	5.52	34.52			27.25	92.6	1000	4.62	34.55	27.38	81.0	1.691
1001	4.62	34.55			27.38	80.9	1200	3.89	34.58	27.48	71.4	1.845
1199	3.89	34.58			27.49	71.4	1500	3.11	34.62	27.59	61.1	2.047
1500	3.11	34.62			27.59	61.1						

CROMWELL 16, STATION 6, 13- ON LAT, 157- 4W LONG, MAY 15, 1965, 0500 G.C.T.						15, 1965, 0500 G.C.T.						
DRY BULB 25.6	WET BULB 24.0	WIND SPEED 17, DIR. 09		BAR. 12		WEATHER 01		VIS. 9	CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.14	34.33			22.51	534.6	0	26.14	34.33	22.51	534.6	0.000
10	26.13	34.33			22.51	534.7	10	26.13	34.33	22.51	534.7	0.054
52	25.66	34.29			22.63	525.3	20	26.05	34.32	22.53	533.2	0.108
75	25.43	34.29			22.70	519.4	30	25.95	34.31	22.55	531.3	0.161
77	25.41	34.29			22.70	518.9	50	25.69	34.29	22.62	525.9	0.268
103	19.27	34.77			24.80	319.7	75	25.43	34.29	22.70	519.4	0.399
129	17.05	34.63			25.24	278.2	100	20.16	34.71	24.52	346.2	0.508
155	13.94	34.36			25.72	232.0	150	14.52	34.41	25.64	240.1	0.656
180	12.25	34.28			26.00	205.9	200	11.49	34.29	26.16	191.6	0.765
206	11.29	34.30			26.20	187.6	250	10.14	34.41	26.49	160.4	0.854
231	10.08	34.28			26.40	168.9	300	9.40	34.53	26.71	140.5	0.930
257	10.22	34.47			26.52	157.8	400	8.19	34.54	26.90	123.0	1.063
283	9.72	34.53			26.65	145.6	500	7.39	34.54	27.02	112.7	1.182
308	9.26	34.53			26.73	138.6	600	6.56	34.54	27.14	102.6	1.290
410	8.11	34.54			26.92	121.9	700	5.88	34.55	27.23	94.0	1.390
513	7.29	34.54			27.04	111.6	800	5.35	34.56	27.31	87.5	1.481
614	6.45	34.54			27.15	101.2	1000	4.61	34.56	27.39	80.1	1.651
817	5.27	34.56			27.32	86.5	1200	3.88	34.58	27.49	71.4	1.804
1020	4.55	34.56			27.40	79.5						
1207	3.86	34.58			27.49	71.1						
1466	3.17	34.61			27.58	62.3						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.25

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 16, STATION 7, 11-30N LAT, 156-57W LONG, MAY 15, 1965, 1500 G.C.T.													
DRY BULB 26.0		WET BULB 24.2		WIND SPEED 13, DIR. 08		BAR. 12		WEATHER 16.		VIS. 7		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.56	34.54			22.53	532.1	0	26.56	34.54	22.53	532.1	0.000	
11	26.59	34.54			22.52	533.4	10	26.59	34.54	22.52	533.3	0.054	
30 ^A	26.55	34.52			22.52	534.4	20	26.58	34.53	22.52	534.1	0.107	
51	26.50*	34.51			22.53	534.5	30	26.55	34.52	22.52	534.4	0.161	
76	25.98	34.42			22.62	526.4	50	26.51	34.51	22.53	534.6	0.269	
100	22.98	34.52			23.60	434.2	75	26.03	34.42	22.61	527.7	0.403	
126	14.82	34.45			25.61	242.6	100	22.98	34.52	23.60	434.2	0.524	
151	12.07	34.28			26.04	201.9	150	12.12	34.29	26.03	202.2	0.684	
175	10.69	34.21			26.24	183.1	200	10.60	34.47	26.45	163.1	0.776	
201	10.61	34.48			26.46	162.4	250	10.42	34.64	26.62	148.4	0.855	
225	10.75	34.63			26.55	154.4	300	9.54	34.62	26.75	136.4	0.927	
251	10.40	34.64			26.62	148.2	400	8.54	34.60	26.90	123.9	1.058	
276	9.72	34.62			26.72	138.8	500	7.71	34.57	27.00	115.2	1.179	
299	9.55	34.62			26.75	136.5	600	6.78	34.56	27.12	104.2	1.290	
400	8.54	34.60			26.90	123.9	700	6.07	34.56	27.22	95.9	1.391	
501	7.70	34.57			27.00	115.2	800	5.48	34.56	27.29	89.1	1.484	
599	6.79	34.56			27.12	104.3	1000	4.45	34.58	27.43	76.5	1.652	
799	5.49	34.56			27.25	89.2	1200	3.76	34.59	27.51	68.7	1.799	
999	4.45	34.58			27.43	76.5	1500	3.10	34.62	27.59	61.0	1.996	
1199	3.83	34.59			27.50	69.9							
1500	3.10	34.62			27.59	61.0							

CROMWELL 16, STATION 7A, 9-58N LAT, 154-0W LONG, MAY 16, 1965, 1100 G.C.T.													
DRY BULB 23.5		WET BULB 23.0		WIND SPEED 16, DIR. 09		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.36	34.54	4.76		22.60	526.1	0	26.36	34.54	22.60	526.1	0.000	
10	26.39	34.53	4.90	0.42	22.58	528.1	10	26.39	34.53	22.58	528.1	0.053	
30 ^A	26.38	34.53			22.58	528.6	20	26.42	34.53	22.57	529.6	0.106	
50	25.93	34.55	5.04	0.40	22.74	514.5	30	26.38	34.53	22.58	528.6	0.160	
76	22.98	34.55	4.95	0.49	23.62	431.2	50	25.93	34.55	22.74	514.5	0.265	
101	18.98	34.56	4.13	0.85	24.71	327.8	75	23.13	34.55	23.58	435.2	0.384	
125	13.23	34.51	1.43	1.41	25.99	206.2	100	19.17	34.56	24.66	332.4	0.481	
150	12.09	34.71	0.18		26.37	170.6	150	12.09	34.71	26.37	170.6	0.608	
175	11.69	34.73	0.28	1.77	26.47	161.0	200	11.27	34.76	26.56	153.3	0.689	
201	11.25	34.76	0.41	2.23	26.56	153.0	250	10.65	34.76	26.67	143.7	0.764	
226	10.94	34.75	0.50	2.77	26.61	148.9	300	10.13	34.75	26.75	136.6	0.835	
249	10.66	34.76	0.41	2.58	26.67	143.8	400	9.46	34.70	26.83	131.2	0.970	
276	10.42	34.75	0.41	1.62	26.70	141.0	500	8.63	34.65	26.92	123.4	1.099	
300	10.13	34.75	0.38	3.13	26.75	136.6	600	7.60	34.58	27.02	114.5	1.219	
400	9.46	34.70	0.28	2.62	26.83	131.2	700	6.55	34.56	27.15	102.5	1.328	
502	8.61	34.65	0.15	2.47	26.93	123.2	800	5.64	34.56	27.27	91.2	1.426	
602	7.58	34.58	0.41	3.02	27.03	114.3	1000	4.68	34.57	27.39	80.2	1.600	
801	5.63	34.56		2.62	27.27	91.1	1200	3.75	34.59	27.50	69.1	1.751	
1001	4.68	34.57	0.96	2.60	27.39	80.2							
1144	3.85	34.58	1.26	2.54	27.45	70.4							
1382	3.26	34.61	1.47	3.02	27.57	62.9							

CROMWELL 16, STATION 8, 11-28N LAT, 153-59W LONG, MAY 16, 1965, 2000 G.C.T.													
DRY BULB 26.5		WET BULB 23.2		WIND SPEED 18, DIR. 07		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH	
0	26.00	34.46	4.82		22.65	521.1	0	26.00	34.46	22.65	521.1	0.000	
11	25.99	34.46	5.01	0.55	22.65	521.2	10	25.99	34.46	22.65	521.2	0.052	
51	25.92*	34.46	4.80	1.02	22.67	520.7	20	25.98	34.45	22.65	521.9	0.105	
76	25.84	34.56	4.82	0.33	22.77	512.1	30	25.96	34.45	22.65	522.1	0.158	
100	17.76	34.64	4.31	0.96	25.07	292.9	50	25.92	34.46	22.67	520.8	0.263	
124	14.29	34.40	2.87	1.53	25.68	235.3	75	25.93	34.56	22.74	515.0	0.393	
151	12.17	34.52	0.94	2.44	26.20	186.1	100	17.76	34.64	25.07	292.9	0.495	
174	11.82	34.73	0.19	2.71	26.43	164.8	150	12.22	34.51	26.19	187.6	0.616	
200	11.27	34.72	0.25	2.74	26.52	156.6	200	11.29	34.72	26.52	156.6	0.703	
224	10.99	34.74	0.29	2.62	26.60	150.3	250	10.62	34.73	26.65	145.3	0.779	
249	10.63	34.73	0.40	2.19	26.65	145.5	300	10.14	34.72	26.73	139.0	0.851	
274	10.34	34.72	0.37	2.38	26.69	141.8	400	9.50	34.70	26.82	132.1	0.987	
299	10.15	34.72			26.73	139.1	500	8.65	34.63	26.90	125.4	1.117	
398	9.52	34.70	0.24	2.52	26.82	132.2	600	7.74	34.60	27.02	115.3	1.239	
498	8.67	34.63	0.22	2.74	26.90	125.6	700	6.76	34.57	27.13	104.7	1.350	
597	7.77	34.60	0.32	3.06	27.01	115.6	800	5.88	34.55	27.23	95.2	1.451	
794	5.92	34.55	0.61	2.89	27.23	95.7	1000	4.79	34.56	27.37	82.2	1.630	
992	4.82	34.56	1.00	2.42	27.37	82.6	1200	4.00	34.58	27.47	72.9	1.788	
1190	4.08	34.58	1.21	3.08	27.47	73.7							
1485	3.25	34.60	1.54	2.48	27.56	64.2							

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 16, STATION 9, 13- 4N LAT, 154- 3W LONG, MAY 17, 1965, 0600 G.C.T.												
DRY BULB 25.9		WET BULB 23.0		WIND SPEED 20, DIR. 06		BAR. 13	WEATHER C2		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	LXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.57**	34.68	4.74		22.63	522.3	0	26.57	34.68	22.63	522.3	0.000
11	26.55	34.68	4.91	0.29	22.64	522.0	10	26.55	34.68	22.64	522.2	0.053
50	26.46	34.60	4.77	0.38	22.67	521.0	20	26.52	34.68	22.65	521.7	0.105
76	26.53	34.69	4.61	0.36	22.69	523.5	30	26.49	34.68	22.66	521.3	0.158
100	24.12	34.56	5.10	0.44	23.29	463.2	50	26.46	34.68	22.67	521.0	0.263
126	19.62	34.79	4.67	1.02	24.72	327.7	75	26.55	34.69	22.65	524.0	0.394
151	15.87	34.50	3.92	1.10	25.41	262.1	100	24.12	34.56	23.29	463.2	0.519
176	12.69	34.29	3.24	1.62	25.92	213.3	150	16.01	34.52	25.39	264.0	0.702
201	10.79	34.24	3.23	1.56	26.24	183.2	200	10.84	34.24	26.23	184.1	0.815
227	10.65	34.45	1.40	2.42	26.43	165.9	250	10.45	34.57	26.56	154.4	0.900
251	10.44	34.57	0.75	2.16	26.56	154.0	300	9.88	34.60	26.68	143.4	0.975
277	10.10	34.60	0.53	2.40	26.64	146.6	400	8.69	34.59	26.87	126.9	1.112
301	9.87	34.60	0.40	3.90	26.68	143.3	500	7.62	34.56	27.01	114.6	1.234
402	8.66	34.59	1.34	2.88	26.87	126.6	600	6.85	34.51	27.07	108.8	1.346
502	7.60	34.56	0.60	2.78	27.01	114.4	700	6.16	34.51	27.17	100.6	1.452
602	6.84	34.51	0.52	2.97	27.08	108.7	800	5.55	34.53	27.26	92.2	1.550
803	5.53	34.53	0.57	3.30	27.26	92.0	1000	4.64	34.54	27.37	81.9	1.726
1003	4.63	34.54	1.00	3.13	27.37	81.8	1200	3.93	34.57	27.47	72.9	1.883
1172	4.04*	34.57	1.42	3.20	27.46	73.7						
1441	3.25	34.59	1.72	2.98	27.56	64.6						

CROMWELL 16, STATION 10, 14-30N LAT, 154-0W LONG, MAY 17, 1965, 1600 G.C.T.													
DRY BULB 23.8		WET BULB 21.5		WIND SPEED 20, DIR. 08		BAR. 14		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	LXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH	
0	26.09	34.55	5.65		22.69	517.3	0	26.09	34.55	22.69	517.3	0.000	
9	26.11	34.53	4.80	0.30	22.67	519.7	10	26.11	34.53	22.67	519.8	0.052	
50	26.12	34.55	4.75	0.30	22.68	520.2	20	26.11	34.52	22.66	520.7	0.105	
75	26.19	34.60	4.76	0.31	22.65	519.7	30	26.12	34.52	22.66	521.1	0.157	
98	26.19	34.77	4.72	0.48	22.78	512.0	50	26.12	34.55	22.63	520.2	0.262	
123	22.00	34.61		0.42	23.94	402.0	75	26.19	34.60	22.69	519.7	0.393	
148	16.33	34.53	3.84	1.09	25.33	269.9	100	25.96	34.72	22.85	505.6	0.522	
171	14.00	34.34	3.30	1.23	25.70	235.2	150	16.06	34.51	25.38	265.3	0.716	
196	11.93	34.28	2.70	2.15	26.06	200.4	200	11.66	34.27	26.11	196.3	0.833	
220	10.60	34.25	2.59	2.08	26.28	177.6	250	9.94	34.38	26.50	159.8	0.922	
245	9.97	34.34	1.85	2.24	26.46	162.9	300	9.77	34.56	26.66	144.9	0.999	
270	9.91	34.51	0.79	2.89	26.60	149.9	400	8.79	34.58	26.84	129.6	1.138	
294	9.81	34.55	0.57	4.81	26.65	145.8	500	7.53	34.52	26.99	116.4	1.262	
391	8.91	34.58	0.32	2.52	26.82	131.0	600	6.81	34.51	27.08	108.4	1.376	
489	7.62	34.52	0.24	2.37	26.97	117.5	700	6.04	34.49	27.17	100.5	1.481	
586	6.92	34.51	0.63	2.93	27.06	109.6	800	5.36	34.48	27.24	93.3	1.579	
784	5.45	34.48	0.64	2.62	27.23	94.4	1000	4.51	34.52	27.37	81.5	1.756	
981	4.57	34.52	1.26	3.30	27.37	82.3	1200	3.85	34.55	27.46	73.3	1.913	
1179	3.97	34.54	1.28	3.15	27.45	75.1							
1478	3.17	34.58	1.62	3.02	27.56	64.0							

CROMWELL 16, STATION 11, 16- ON LAT, 153-57W LONG, MAY 18, 1965, 0000 G.C.T.												
DRY BULB 25.0			WET BULB 21.2		WIND SPEED 10, DIR. 06		BAR. 15		WEATHER 02		VIS. 8 CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	LXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH
0	25.73	34.29	4.90		22.60	525.3	0	25.73	34.29	22.60	525.3	0.000
11	25.61	34.30	5.00	0.43	22.65	521.5	10	25.62	34.30	22.64	521.9	0.053
51	25.00	34.36	4.94	0.50	22.88	500.9	20	25.52	34.30	22.69	518.0	0.105
76	24.26	34.37	5.10	0.39	23.11	479.9	30	25.38	34.33	22.74	513.4	0.157
101	22.33	34.88	5.24	0.34	24.05	390.6	50	25.02	34.36	22.87	501.6	0.259
127	20.36	34.93	4.85	0.49	24.63	336.2	75	24.30	34.37	23.09	481.5	0.383
152	18.94	34.88	4.56	0.55	24.96	305.3	100	22.42	34.86	24.01	394.4	0.493
177	16.56	34.61	4.26	0.76	25.34	270.1	150	19.06	34.89	24.94	307.6	0.670
203	13.78	34.35	3.97	1.77	25.75	230.9	200	14.09	34.38	25.70	235.2	0.807
228	11.71	34.22	3.58	1.54	26.06	201.6	250	10.62	34.26	26.29	180.0	0.912
253	10.52	34.27	2.64	2.00	26.31	177.5	300	9.79	34.43	26.56	154.3	0.996
278	10.11	34.34	1.78	2.27	26.44	165.9	400	8.47	34.48	26.82	131.5	1.140
302	9.76	34.44	1.00	2.92	26.58	153.3	500	7.66	34.52	26.97	118.3	1.266
403	8.44	34.48	0.57	2.55	26.82	131.3	600	6.58	34.47	27.08	107.8	1.380
505	7.62	34.52	0.66	2.62	26.97	117.7	700	5.92	34.47	27.17	99.9	1.485
606	6.52	34.47	0.82	2.79	27.09	107.2	800	5.48	34.50	27.24	93.7	1.583
807	5.46	34.50	0.69	3.06	27.25	93.3	1000	4.68	34.51	27.34	84.6	1.764
1010	4.64	34.51	0.86	3.46	27.35	84.2	1200	3.95	34.55	27.45	74.5	1.925
1210	3.92	34.55	1.08	2.51	27.46	74.0	1500	3.13	34.58	27.56	64.4	2.136
1512	3.10	34.58	1.55	2.81	27.56	64.0						

*INTERPOLATED DATA
**EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 16, STATION 12, 17-30N LAT, 154- 0W LONG, MAY 18, 1965, 0900 G.C.T.					18, 1965, 0900 G.C.T.					VIS. 5 CLOUD TYPE 8, COVER 7				
DRY BULB 24.6 WET BULB 22.0 WIND SPEED 15, DIR. 07					BAR. 17 WEATHER 03									
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.05	34.34	4.94		22.85	501.8	0	25.05	34.34	22.85	501.8	0.000		
10	25.06	34.35	5.12	0.48	22.85	501.8	10	25.06	34.35	22.85	501.8	0.051		
30 ^A	25.05	34.35			22.86	502.3	20	25.09	34.35	22.84	503.1	0.101		
51	24.41	34.37	5.04	0.50	23.06	483.2	30	25.05	34.35	22.86	502.3	0.152		
78	23.67	34.36	5.11	0.41	23.58	435.2	50	24.45	34.37	23.05	484.5	0.251		
103	23.17	34.96	5.22	0.28	23.87	407.9	75	23.74	34.71	23.52	440.7	0.368		
127	22.30	35.06	5.00	0.35	24.20	377.8	100	23.24	34.94	23.84	410.8	0.475		
153	20.48	35.09	4.68	0.41	24.72	328.7	150	20.70	35.09	24.66	334.1	0.663		
178	19.29	35.03	4.55	0.47	24.99	304.0	200	17.21	34.74	25.28	276.0	0.816		
204	16.78	34.68	4.37	0.75	25.34	270.8	250	13.18	34.30	25.84	223.8	0.942		
229	14.37	34.40	4.10	1.07	25.66	239.9	300	10.62	34.24	26.27	182.6	1.045		
255	12.94	34.29	3.65	1.37	25.87	220.1	400	8.78	34.38	26.69	143.9	1.210		
280	11.40	34.24	3.65	1.45	26.13	195.7	500	7.30	34.37	26.91	123.7	1.345		
305	10.46	34.24		1.74	26.30	179.8	600	6.29	34.38	27.05	110.8	1.463		
406	8.73	34.39	2.83	2.46	26.70	142.5	700	5.57	34.41	27.16	100.2	1.570		
508	7.19	34.37	0.81	2.88	26.92	122.6	800	5.01	34.45	27.26	91.5	1.667		
609	6.22	34.38	0.74	3.09	27.06	109.8	1000	4.24	34.51	27.39	79.3	1.840		
812	4.96	34.45	0.98	2.47	27.27	90.6	1200	3.65	34.53	27.47	72.2	1.993		
1014	4.20	34.51	1.10	3.21	27.40	78.7	1500	2.92	34.57	27.57	62.5	2.198		
1216	3.61	34.53	1.19	2.97	27.47	71.7								
1519	2.88	34.57	1.62	3.13	27.57	62.1								

CROMWELL 16, STATION 13, 19- ON LAT, 154- 5W LONG, MAY 18, 1965, 1800 G.C.T.					18, 1965, 1800 G.C.T.					VIS. 7 CLOUD TYPE 4, COVER 7				
DRY BULB 24.1 WET BULB 21.6 WIND SPEED 15, DIR. 09					BAR. 18 WEATHER 02									
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.87	34.09	5.02		22.72	514.6	0	24.87	34.09	22.72	514.6	0.000		
10	24.92	34.08	5.16	0.51	22.69	517.2	10	24.92	34.08	22.69	517.2	0.052		
30 ^A	24.82	34.14			22.77	510.7	20	24.94	34.07	22.68	518.7	0.104		
51	23.81	34.75	5.05	0.36	23.53	438.8	30	24.82	34.14	22.77	510.7	0.156		
77	23.10	34.89	5.20	0.27	23.84	410.0	50	23.86	34.72	23.49	442.5	0.252		
103	22.18	35.08	5.04	0.22	24.25	372.2	75	23.15	34.89	23.83	411.2	0.360		
128	21.46	35.15	4.98	0.28	24.50	348.9	100	22.29	35.06	24.20	376.4	0.459		
154	20.17	35.11	4.64	0.46	24.82	319.4	150	20.38	35.12	24.77	323.7	0.635		
179	19.04	34.99	4.75	0.40	25.02	300.7	200	17.45	34.75	25.24	280.7	0.787		
205	17.02	34.69	4.40	0.63	25.29	275.6	250	13.19	34.26	25.80	227.1	0.915		
231	14.84	34.42	4.21	0.98	25.58	248.3	300	10.71	34.17	26.20	189.0	1.020		
256	12.72	34.22	4.05	1.13	25.86	221.1	400	7.97	34.18	26.66	145.9	1.189		
282	11.50	34.18	3.56	1.27	26.07	202.0	500	6.47	34.27	26.94	119.8	1.323		
307	10.42	34.17	3.88	1.58	26.25	184.3	600	5.63	34.35	27.11	104.0	1.436		
409	7.82	34.19	2.32	2.19	26.69	143.4	700	5.15	34.42	27.22	94.3	1.537		
510	6.36	34.28	0.90	2.84	26.96	117.7	800	4.81	34.46	27.29	87.6	1.629		
613	5.55	34.36	0.85	2.75	27.12	102.5	1000	4.14	34.52	27.41	77.3	1.796		
814	4.78	34.47	0.88	2.79	27.30	86.9	1200	3.58	34.56	27.50	69.3	1.944		
1019	4.09	34.52	1.04	2.75	27.42	76.5	1500	2.89	34.61	27.60	59.4	2.140		
1220	3.53	34.56	1.18	2.84	27.51	68.6								
1524	2.84	34.61	1.62	2.96	27.61	58.7								

CROMWELL 16, STATION 14, 20-31N LAT, 154- 3W LONG, MAY 19, 1965, 0300 G.C.T.					19, 1965, 0300 G.C.T.					VIS. 8 CLOUD TYPE 1, COVER 2				
DRY BULB 24.0 WET BULB 20.5 WIND SPEED 18, DIR. 11					BAR. 15 WEATHER 02									
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1	24.86	34.35	5.00		22.91	495.6	0	24.86	34.35	22.91	495.6	0.000		
11	24.88	34.34	5.20	0.47	22.90	497.3	10	24.88	34.34	22.90	497.2	0.050		
50	24.71	34.36	5.02	0.39	22.97	492.5	20	24.92	34.33	22.88	499.6	0.100		
76	23.80	34.51	5.19	0.34	23.35	456.8	30	24.91	34.33	22.88	499.7	0.151		
100	23.22	34.88	5.20	0.69	23.80	414.9	50	24.71	34.36	22.97	492.5	0.250		
132	22.02	35.02	5.10	0.31	24.25	373.3	75	23.84	34.50	23.33	458.5	0.370		
149	20.91	35.14	4.80	0.39	24.64	336.0	100	23.22	34.88	23.80	414.9	0.480		
173	20.02	35.10	4.63	0.44	24.85	317.0	150	20.87	35.14	24.66	334.8	0.669		
198	18.77	34.96	4.57	0.49	25.07	297.0	200	18.60	34.94	25.09	294.7	0.828		
222	16.59	34.66	4.50	0.83	25.37	268.5	250	16.18	34.39	25.69	237.6	0.962		
248	14.40	34.41	4.36	1.03	25.67	240.3	300	10.66	34.10	26.16	193.4	1.071		
272	11.98	34.17	4.40	1.50	25.97	211.2	400	8.64	34.26	26.62	150.6	1.244		
297	10.76	34.10	4.27	1.23	26.14	195.1	500	7.67	34.38	26.86	128.7	1.385		
395	8.70	34.25	1.93	2.52	26.60	152.1	600	6.66	34.34	26.97	118.7	1.510		
495	7.72	34.38	0.84	2.77	26.85	129.4	700	5.84	34.38	27.10	106.2	1.624		
594	6.72	34.34	0.78	3.09	26.96	119.4	800	5.21	34.43	27.22	94.9	1.725		
793	5.24	34.43	0.68	3.16	27.22	95.5	1000	4.48	34.49	27.35	83.3	1.906		
990	4.51	34.49	0.93	3.22	27.35	83.8	1200	3.85	34.54	27.46	73.9	2.065		
1188	3.89	34.54	1.04	3.22	27.45	74.2								
1490	3.14	34.58	1.39	3.13	27.56	64.3								

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 16, STATION 15, 21-59N LAT, 153-55W LONG, MAY 19, 1965, 1200 G.C.T.													
DRY BULB 23.7		WET BULB 20.6		WIND SPEED 17, DIR. 09		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.83	34.40	4.85		22.96	491.1	0	24.83	34.40	22.96	491.1	0.000	
11	24.86	34.40	5.03	0.44	22.95	492.4	10	24.86	34.40	22.95	492.3	0.050	
30 Δ	24.82	34.40			22.96	492.0	20	24.90	34.39	22.94	494.2	0.099	
51	23.89	34.51	5.00		23.32	458.4	30	24.82	34.40	22.96	492.0	0.149	
75	23.72	34.80	5.00	0.29	23.59	433.6	50	23.94	34.50	23.30	460.2	0.245	
99	23.33	34.95	5.02	0.69	23.82	412.9	75	23.72	34.80	23.59	433.6	0.357	
125	22.03	35.07	4.87	0.53	24.28	369.7	100	23.29	34.96	23.84	411.2	0.464	
151	21.09	35.12	4.72	0.48	24.58	342.2	150	21.12	35.12	24.57	343.0	0.654	
174	20.62	35.17	4.74	0.31	24.75	327.2	200	19.22	35.02	25.00	303.7	0.817	
199	19.29	35.03	4.46	0.79	24.99	304.7	250	15.97	34.61	25.47	259.2	0.959	
224	17.60	34.81	4.50	0.75	25.24	280.9	300	12.73	34.27	25.90	218.5	1.079	
248	16.12	34.63	4.36	0.73	25.45	261.1	400	8.76	34.07	26.45	166.6	1.273	
273	14.30	34.42	4.40	1.70	25.69	238.2	500	6.48	34.06	26.77	135.2	1.426	
298	12.83	34.28	4.65	0.95	25.89	219.8	600	5.52	34.21	27.01	113.4	1.551	
397	8.85	34.07	4.06	1.49	26.43	167.7	700	4.94	34.32	27.17	98.6	1.659	
497	6.52	34.06	2.17	2.69	26.76	136.0	800	4.59	34.41	27.28	88.5	1.753	
596	5.55	34.20	1.04	2.97	27.00	114.1	1000	4.17	34.52	27.41	77.4	1.921	
795	4.60	34.41	0.69	3.20	27.27	88.9	1200	3.67	34.56	27.49	70.0	2.070	
994	4.19	34.52	1.00	2.77	27.41	77.7							
1193	3.63	34.54	1.21	3.10	27.48	71.1							
1492	3.04	34.59	1.53	3.02	27.58	62.4							

CROMWELL 16, STATION 16, 23-30N LAT, 153-56W LONG, MAY 19, 1965, 2000 G.C.T.												
DRY BULB 23.5		WET BULB 20.8		WIND SPEED 15, DIR. 09		BAR. 20		WEATHER 02		VIS. 8		CLOUD TYPE 1, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.17	34.82	4.94		23.48	442.0	0	24.17	34.82	23.48	442.0	0.000
11	24.18	34.82	5.10	0.25	23.47	442.7	10	24.18	34.82	23.47	442.6	0.045
20 ^Δ	24.18	34.82			23.47	443.0	20	24.18	34.82	23.47	443.0	0.089
30 ^Δ	24.18	34.82			23.47	443.4	30	24.18	34.82	23.47	443.4	0.134
49	23.05	35.05	5.10	0.25	23.98	396.0	50	22.99	35.06	24.00	393.9	0.218
74	21.77	35.17	5.02	0.25	24.43	353.6	75	21.73	35.17	24.44	352.5	0.312
97	20.86	35.17	4.80	0.27	24.68	330.6	100	20.70	35.16	24.71	327.5	0.398
121	19.56	35.06	4.43	0.96	24.94	306.5	150	18.16	34.90	25.17	285.1	0.552
146	18.32	34.92	4.40	0.55	25.15	287.3	200	15.27	34.54	25.57	248.0	0.687
170	17.26	34.78	4.36	0.53	25.30	273.4	250	12.63	34.27	25.92	215.7	0.803
194	15.63	34.58	4.39	0.74	25.53	252.3	300	10.65	34.15	26.19	189.9	0.906
218	14.27	34.42	4.40	0.76	25.70	236.1	400	8.02	34.13	26.61	150.8	1.078
243	13.03	34.31	4.38	1.04	25.87	220.1	500	6.16	34.09	26.83	129.2	1.219
267	11.73	34.18	4.36	1.82	26.02	205.8	600	5.40	34.20	27.01	112.6	1.361
291	10.93	34.15	4.30	1.33	26.15	194.2	700	4.97	34.33	27.17	98.2	1.447
386	8.36	34.14	2.70	2.28	26.57	154.8	800	4.70	34.45	27.29	87.6	1.541
485	6.34	34.08	2.17	2.48	26.80	131.9	1000	4.20	34.52	27.41	77.9	1.709
582	5.50	34.17	1.09	3.00	26.98	115.6	1200	3.70	34.57	27.50	69.9	1.858
776	4.77	34.43	0.71	3.22	27.27	89.3						
970	4.28	34.51	0.92	3.30	27.39	79.3						
1164	3.76	34.56	1.15	3.22	27.48	70.9						
1461	3.12	34.59	1.47	2.78	27.57	63.2						

CROMWELL 16, STATION 17, 23-27N LAT, 151- 0W LONG, MAY 20, 1965, 1300 G.C.T.													
DRY BULB 20.5		WET BULB 14.1		WIND SPEED 19, DIR. 09		BAR. 20		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH	
0	23.75	34.63			23.46	443.8	0	23.75	34.63	23.46	443.8	0.000	
10	23.86	34.62			23.42	448.0	10	23.86	34.62	23.42	448.0	0.045	
50	22.48	35.02			24.12	382.6	20	23.63	34.70	23.54	436.5	0.089	
76	21.82	35.17			24.42	355.1	30	23.32	34.79	23.70	421.7	0.133	
100	21.06	35.20			24.65	333.8	50	22.48	35.02	24.12	382.6	0.214	
126	19.84	35.07			24.88	312.9	75	21.85	35.17	24.41	356.0	0.307	
152	18.67	34.90			25.05	297.3	100	21.06	35.20	24.65	333.8	0.394	
176	17.89	34.86			25.21	282.5	150	18.75	34.91	25.04	298.5	0.553	
202	16.22	34.64			25.44	261.1	200	16.36	34.66	25.42	262.8	0.694	
228	14.61	34.42			25.63	243.4	250	13.35	34.28	25.79	228.4	0.818	
253	13.19	34.27			25.81	226.4	300	10.86	34.11	26.13	196.2	0.925	
278	11.97	34.18			25.98	210.4	400	8.15	34.06	26.53	158.0	1.104	
303	10.71	34.10			26.15	194.3	500	6.36	34.09	26.81	131.9	1.250	
404	8.09	34.06			26.54	157.0	600	5.12	34.17	27.03	110.9	1.373	
506	6.27	34.09			26.82	130.5	700	4.61	34.29	27.18	96.6	1.478	
607	5.06	34.18			27.04	109.6	800	4.42	34.41	27.29	86.8	1.570	
809	4.42	34.42			27.30	86.1	1000	3.99	34.51	27.42	76.2	1.735	
1012	3.96	34.51			27.42	75.8	1200	3.49	34.55	27.50	68.8	1.882	
1212	3.46	34.55			27.50	68.4	1500	2.82	34.59	27.60	59.8	2.078	
1514	2.79	34.59			27.60	59.5							

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10
 TEMPERATURE ERROR TERM AT 30. METERS IS 0.14

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 16, STATION 18, 22- 1N LAT, 151- 0W LONG, MAY 20, 1965, 2200 G.C.T.													
DRY BULB 23.0		WET BULB 20.2		WIND SPEED 16, DIR. 14		BAR. 20		WEATHER 02--		VIS. 8		CLOUD TYPE 4, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.82	34.63			23.47	442.2	0	23.82	34.68	23.47	442.2	0.000	
10	23.80	34.66			23.46	443.5	10	23.80	34.66	23.46	443.5	0.045	
51	21.58	34.18			24.49	347.0	20	23.34	34.77	23.68	423.2	0.088	
77	21.07	34.23			24.67	331.0	30	22.82	34.89	23.92	400.8	0.130	
101	20.63	35.20			24.77	322.7	50	21.64	35.16	24.46	349.8	0.205	
127	19.92	35.15			24.92	309.2	75	21.10	35.23	24.66	331.5	0.291	
152	19.10	35.06			25.06	296.2	100	20.65	35.20	24.76	323.0	0.374	
177	17.65	34.85			25.26	277.6	150	19.18	35.07	25.05	297.4	0.530	
202	15.83	34.59			25.49	256.2	200	15.98	34.61	25.47	257.9	0.670	
227	14.02	34.36			25.71	235.6	250	12.57	34.24	25.91	216.3	0.789	
251	12.51	34.24			25.92	215.5	300	10.36	34.14	26.24	185.6	0.891	
278	11.17	34.18			26.13	196.0	400	7.73	34.03	26.57	153.7	1.062	
303	10.26	34.13			26.25	184.4	500	6.26	34.10	26.83	130.0	1.205	
403	7.67	34.03			26.58	153.0	600	5.35	34.19	27.02	112.0	1.327	
504	6.22	34.10			26.84	129.1	700	4.69	34.29	27.17	98.2	1.434	
605	5.31	34.20			27.03	111.2	800	4.24	34.37	27.28	87.9	1.528	
806	4.22	34.37			27.28	87.4	1000	3.83	34.48	27.41	76.5	1.694	
1007	3.82	34.48			27.41	76.3	1200	3.37	34.53	27.50	68.8	1.841	
1208	3.35	34.53			27.50	68.6	1500	2.72	34.57	27.59	60.1	2.037	
1511	2.70	34.57			27.59	59.9							
TEMPERATURE ERROR TERM AT 20. METERS IS					0.16								
TEMPERATURE ERROR TERM AT 30. METERS IS					0.22								
SALINITY ERROR TERM AT 30. METERS IS					0.06								

CROMWELL 16, STATION 19, 20-30N LAT, 151- 2W LONG, MAY 21, 1965, 0800 G.C.T.														
DRY BULB 23.2		WET BULB 19.7		WIND SPEED 20, DIR. 12		BAR. 19		WEATHER 03		VIS.		CLOUD TYPE 8, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.35	34.49			23.17	470.9	0	24.35	34.49	23.17	470.9	0.000		
9	24.38	34.48			23.16	472.8	10	24.38	34.48	23.16	472.9	0.048		
20 ^Δ	24.37	34.48			23.16	473.0	20	24.37	34.48	23.16	473.0	0.095		
30 ^Δ	24.30	34.49			23.19	470.6	30	24.30	34.49	23.19	470.6	0.143		
49	22.64	34.98			24.04	389.8	50	22.57	34.99	24.07	387.2	0.229		
73	21.49	35.13			24.48	349.1	75	21.44	35.14	24.50	347.5	0.322		
97	21.09	35.18			24.63	335.9	100	21.04	35.18	24.64	334.5	0.408		
121	20.56	35.17			24.76	323.8	150	19.36	35.06	24.99	302.8	0.568		
147	19.40	35.07			24.97	304.9	200	16.39	34.64	25.40	265.0	0.711		
169	18.44	34.94			25.14	289.5	250	12.75	34.23	25.87	220.4	0.834		
193	16.98	34.72			25.32	272.1	300	10.12	34.10	26.25	184.3	0.936		
217	14.95	34.45			25.58	248.0	400	7.95	34.17	26.65	146.6	1.103		
242	13.34	34.27			25.78	229.0	500	6.59	34.24	26.90	123.7	1.239		
262	11.89	34.19			26.00	207.8	600	5.79	34.32	27.06	108.5	1.356		
287	10.59	34.11			26.18	191.2	700	5.34	34.37	27.16	99.7	1.461		
380	8.31	34.16			26.59	152.5	800	5.02	34.42	27.24	93.4	1.559		
476	6.86	34.22			26.85	128.5	1000	4.38	34.49	27.36	82.4	1.737		
570	5.97	34.30			27.03	111.9	1200	3.78	34.52	27.45	74.3	1.895		
757	5.17	34.40			27.20	96.4								
946	4.56	34.43			27.33	84.8								
1135	3.94	34.50			27.42	77.3								
1419	3.24	34.54			27.52	68.0								

CROMWELL 16, STATION 20, 19- 0N LAT, 150-55W LONG, MAY 21, 1965, 1700 G.C.T.														
DRY BULB 23.8		WET BULB 19.5		WIND SPEED 20, DIR. C9		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.15	34.39			23.16	472.4	0	24.15	34.39	23.16	472.4	0.000		
9	24.18	34.41			23.16	472.2	10	24.19	34.41	23.16	472.6	0.048		
48	24.13	34.45			23.21	469.4	20	24.24	34.39	23.13	475.3	0.095		
73	23.53	34.80			23.65	428.2	30	24.24	34.40	23.14	475.5	0.143		
97	22.27	34.92			24.10	385.9	50	24.10	34.48	23.24	466.7	0.238		
121	21.73	35.15			24.43	355.8	75	23.42	34.81	23.69	424.5	0.350		
145	20.36	35.06			24.73	327.5	100	22.21	34.95	24.15	381.8	0.452		
169	19.00	34.98			25.02	300.1	150	20.08	35.05	24.80	321.5	0.629		
194	17.42	34.78			25.26	277.9	200	16.93	34.70	25.32	272.4	0.779		
218	15.37	34.48			25.51	254.7	250	12.69	34.23	25.88	219.4	0.903		
242	13.29	34.29			25.80	226.6	300	10.48	34.17	26.24	185.4	1.005		
267	11.64	34.15			26.02	206.3	400	8.28	34.30	26.70	142.2	1.170		
291	10.77	34.16			26.18	190.7	500	7.29	34.42	26.94	120.0	1.303		
385	8.47	34.27			26.65	146.9	600	6.18	34.41	27.08	107.3	1.417		
481	7.52	34.42			26.91	123.2	700	5.53	34.44	27.19	97.5	1.521		
577	6.37	34.40			27.05	109.9	800	5.07	34.48	27.27	90.0	1.616		
770	5.22	34.47			27.25	92.0	1000	4.25	34.51	27.39	79.3	1.787		
961	4.38	34.50			27.37	81.2	1200	3.65	34.54	27.48	71.4	1.940		
1153	3.82	34.54			27.46	73.1								
1442	3.12	34.56			27.54	65.2								

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 16, STATION 21, 17-31N LAT, 150-59W LONG, MAY 22, 1965, C100 G.C.T.					BAR. 17 WEATHER 03 VIS. 6 CLOUD TYPE 4, COVER 7									
DRY BULB 23.9	WET BULB 20.9	WIND SPEED 21, DIR. 07												
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.66	34.39			23.00	487.0	0	24.66	34.39	23.00	487.0	0.000		
11	24.67	34.38			22.99	488.4	10	24.67	34.38	22.99	488.3	0.049		
30 ^A	24.65	34.38			23.00	488.6	20	24.72	34.37	22.97	490.8	0.098		
51	23.61	34.52			23.41	449.8	30	24.65	34.38	23.00	488.6	0.148		
76	22.75	34.88			23.93	401.1	50	23.67	34.51	23.39	452.1	0.243		
101	22.19	35.04			24.21	375.3	75	22.78	34.87	23.92	402.8	0.350		
126	20.95	35.11			24.61	338.4	100	22.22	35.04	24.20	376.2	0.448		
151	19.42	35.06			24.98	304.1	150	19.48	35.06	24.97	305.2	0.620		
176	18.50	34.97			25.14	289.0	200	17.04	34.73	25.32	272.7	0.766		
201	16.96	34.72			25.33	271.9	250	12.48	34.26	25.94	213.2	0.888		
227	14.33	34.38			25.66	240.5	300	9.78	34.14	26.34	175.6	0.986		
251	12.41	34.26			25.96	212.1	400	8.37	34.37	26.74	138.5	1.145		
276	10.72	34.17			26.20	188.8	500	6.88	34.37	26.96	118.1	1.274		
301	9.75	34.14			26.34	175.2	600	6.05	34.39	27.09	106.7	1.388		
401	8.37	34.37			26.74	138.3	700	5.46	34.44	27.20	96.6	1.491		
501	6.87	34.37			26.96	118.0	800	5.01	34.49	27.29	88.2	1.584		
602	6.04	34.39			27.09	106.6	1000	4.26	34.52	27.40	78.6	1.753		
802	5.00	34.49			27.29	88.1	1200	3.68	34.54	27.47	71.8	1.905		
1003	4.25	34.52			27.40	78.5	1500	2.91	34.59	27.59	60.9	2.107		
1205	3.67	34.54			27.48	71.7	2000	2.10	34.64	27.69	50.3	2.389		
1507	2.89	34.59			27.59	60.7	2500	1.78	34.66	27.74	46.7	2.636		
2077	2.02	34.64			27.70	49.3	3000	1.64	34.68	27.76	45.0	2.870		
2582	1.76	34.66			27.74	46.5	4000	1.44	34.70	27.79	43.3	3.323		
3086	1.62	34.68			27.77	44.8								
4094	1.43	34.70			27.80	43.3								

CROMWELL 16, STATION 22, 15-58N LAT, 150-59W LONG, MAY 22, 1965, 1200 G.C.T.					BAR. 14 WEATHER 02 VIS. 7 CLOUD TYPE , COVER 1									
DRY BULB 24.0	WET BULB 21.5	WIND SPEED 20, DIR. 10												
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.80	34.40			22.97	490.3	0	24.80	34.40	22.97	490.3	0.000		
9	24.81	34.40			22.97	490.9	10	24.81	34.40	22.97	490.9	0.049		
30 ^A	24.80	34.40			22.97	491.4	20	24.81	34.40	22.97	491.3	0.099		
47	24.78	34.40			22.98	491.5	30	24.80	34.40	22.97	491.4	0.148		
70	24.02	34.57			23.33	458.5	50	24.71	34.41	23.01	488.7	0.247		
94	23.10	34.90			23.85	402.9	75	23.87	34.64	23.43	449.1	0.365		
117	21.47	34.98			24.37	361.0	100	22.70	34.93	23.99	396.7	0.472		
141	20.02	35.04			24.81	320.2	150	19.48	35.01	24.92	309.4	0.650		
164	18.60	34.91			25.07	295.3	200	15.71	34.54	25.48	257.5	0.793		
189	16.87	34.67			25.31	273.1	250	11.24	34.20	26.13	195.1	0.907		
212	14.40	34.40			25.66	240.0	300	9.94	34.35	26.48	162.7	0.997		
235	12.42	34.26			25.95	211.9	400	8.64	34.49	26.79	133.8	1.146		
259	10.69	34.19			26.22	186.4	500	7.67	34.50	26.95	119.8	1.274		
283	10.22	34.30			26.39	170.8	600	6.85	34.50	27.06	109.8	1.390		
376	8.92	34.47			26.74	139.0	700	5.96	34.49	27.18	99.3	1.496		
471	7.91	34.50			26.92	122.9	800	5.32	34.50	27.26	91.5	1.593		
565	7.18	34.50			27.02	113.7	1000	4.36	34.51	27.38	80.5	1.767		
739	5.64	34.49			27.22	95.6	1200	3.66	34.55	27.48	70.9	1.920		
880	4.97	34.51			27.31	87.1								
1022	4.25	34.51			27.39	79.4								
1243	3.54	34.56			27.50	68.9								

CROMWELL 16, STATION 23, 14-30N LAT, 150-59W LONG, MAY 22, 1965, 2100 G.C.T.					BAR. 15 WEATHER 03 VIS. 8 CLOUD TYPE 8, COVER 3									
DRY BULB 24.9	WET BULB 21.7	WIND SPEED 18, DIR. 09												
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.54	34.60			22.90	497.4	0	25.54	34.60	22.90	497.4	0.000		
10	25.57	34.61			22.89	497.9	10	25.57	34.61	22.89	497.9	0.050		
50	25.57	34.60			22.89	500.3	20	25.58	34.61	22.89	498.6	0.100		
74	25.56	34.60			22.89	500.9	30	25.58	34.61	22.89	499.2	0.151		
98	23.27	34.60			23.57	436.4	50	25.57	34.60	22.89	500.3	0.251		
124	19.69	34.86			24.76	324.3	75	25.50	34.60	22.91	499.3	0.377		
148	16.08	34.54			25.39	263.7	100	23.02	34.63	23.67	427.7	0.494		
171	13.10	34.27			25.83	222.5	150	15.78	34.51	25.44	259.5	0.667		
196	11.60	34.41			26.23	184.9	200	11.48	34.43	26.26	181.5	0.778		
221	11.14	34.51			26.39	169.9	250	10.97	34.62	26.51	159.2	0.864		
246	11.03	34.62			26.49	160.5	300	10.14	34.64	26.67	144.8	0.941		
271	10.61	34.63			26.58	153.0	400	9.09	34.63	26.83	130.6	1.080		
294	10.22	34.64			26.65	146.1	500	7.93	34.57	26.96	118.9	1.206		
393	9.17	34.63			26.82	131.5	600	7.04	34.53	27.06	110.2	1.321		
492	8.01	34.57			26.96	119.7	700	6.23	34.52	27.17	100.6	1.428		
589	7.14	34.53			27.05	111.3	800	5.58	34.53	27.26	92.5	1.525		
784	5.65	34.53			27.25	93.4	1000	4.80	34.55	27.36	83.1	1.703		
980	4.89	34.55			27.35	84.2	1200	4.01	34.57	27.47	73.4	1.862		
1176	4.04	34.57			27.46	73.8								
1472	3.09	34.60			27.58	62.1								

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 16, STATION 24, 13-1N LAT, 151-1W LONG, MAY 23, 1965, 0600 G.C.T.													
DRY BULB 25.2		WET BULB 22.1		WIND SPEED 20, DIR. 09		BAR. 13		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PU4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.72	34.64			22.87	499.8	0	25.72	34.64	22.87	499.8	0.000	
10	25.72	34.63			22.86	500.9	10	25.72	34.63	22.86	500.9	0.050	
49	25.72	34.64			22.87	501.8	20	25.72	34.63	22.86	501.4	0.101	
73	25.71	34.64			22.87	502.4	30	25.72	34.63	22.86	501.7	0.151	
96	25.36	34.60			22.95	495.9	50	25.72	34.64	22.87	501.9	0.253	
119	23.60	34.64			23.51	443.5	75	25.71	34.64	22.87	502.9	0.379	
143	18.91	34.67			24.81	319.5	100	25.20	34.60	23.00	491.1	0.504	
168	15.05	34.42			25.53	250.9	150	17.72	34.61	25.06	295.9	0.703	
192	12.39	34.30			25.99	207.3	200	11.95	34.35	26.12	195.4	0.826	
215	11.48	34.49			26.31	177.3	250	10.98	34.62	26.50	159.5	0.916	
239	11.07	34.58			26.46	163.9	300	10.37	34.64	26.62	149.1	0.994	
264	10.88	34.66			26.55	155.3	400	9.16	34.62	26.82	132.1	1.136	
287	10.55	34.64			26.60	151.6	500	8.07	34.57	26.95	120.6	1.263	
382	9.36	34.63			26.79	134.4	600	7.06	34.54	27.07	109.3	1.379	
477	8.32	34.58			26.92	123.4	700	6.23	34.53	27.17	99.9	1.485	
573	7.31	34.55			27.04	112.1	800	5.56	34.53	27.26	92.1	1.582	
765	5.77	34.53			27.23	94.7	1000	4.58	34.55	27.39	80.1	1.756	
957	4.76	34.55			27.37	82.2	1200	3.84	34.58	27.49	71.1	1.909	
1150	4.04	34.57			27.46	73.5							
1445	3.21	34.60			27.57	63.4							

CROMWELL 16, STATION 25, 11-32N LAT, 151-2W LONG, MAY 23, 1965, 1600 G.C.T.														
DRY BULB 24.5		WET BULB 23.3		WIND SPEED 22, DIR. 07		BAR. 14		WEATHER 01		VIS. 6		CLOUD TYPE 7, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	26.76	34.85			22.70	515.8	0	26.76	34.85	22.70	515.8	0.000		
10	26.79	34.86			22.70	516.4	10	26.79	34.86	22.70	516.4	0.052		
52	26.78	34.84			22.69	519.3	20	26.80	34.86	22.70	517.2	0.104		
76	26.79	34.85			22.69	519.8	30	26.80	34.85	22.69	517.9	0.156		
102	17.24	34.52			25.11	289.7	50	26.78	34.84	22.69	519.2	0.261		
126	13.18	34.47			25.97	208.2	75	26.87	34.85	22.67	522.2	0.392		
153	11.51	34.46			26.28	178.5	100	18.06	34.55	24.93	306.6	0.496		
178	11.46	34.68			26.46	162.1	150	11.58	34.45	26.26	180.2	0.619		
204	11.12	34.70			26.54	155.2	200	11.18	34.70	26.53	155.9	0.704		
229	10.85	34.72			26.60	149.6	250	10.64	34.71	26.63	147.0	0.780		
253	10.61	34.71			26.64	146.7	300	10.11	34.69	26.71	140.9	0.853		
279	10.31	34.72			26.70	141.4	400	9.37	34.67	26.82	132.2	0.990		
304	10.08	34.68			26.71	141.0	500	8.58	34.62	26.90	125.2	1.120		
405	9.34	34.67			26.82	131.6	600	7.61	34.56	27.01	115.9	1.242		
508	8.51	34.61			26.91	124.7	700	6.68	34.53	27.11	106.3	1.354		
609	7.52	34.56			27.02	115.0	800	5.87	34.52	27.21	97.3	1.457		
811	5.79	34.52			27.22	96.3	1000	4.73	34.56	27.38	81.8	1.638		
1013	4.67	34.56			27.35	80.9	1200	3.96	34.56	27.46	73.7	1.796		
1216	3.91	34.56			27.47	73.2	1500	3.16	34.60	27.57	63.5	2.004		
1520	3.12	34.60			27.58	62.8	2000	2.25	34.64	27.68	52.2	2.298		
2093	2.14	34.64			27.69	50.9	2500	1.86	34.65	27.72	48.3	2.554		
2598	1.82	34.65			27.73	48.1	3000	1.68	34.67	27.76	45.9	2.795		
3102	1.66	34.68			27.76	45.4	4000	1.43	34.68	27.78	44.4	3.257		
4112	1.42	34.68			27.78	44.6								

TEMPERATURE ERROR TERM AT 100. METERS IS 0.18

CROMWELL 16, STATION 26, 10-2N LAT, 148-1W LONG, MAY 24, 1965, 1500 G.C.T.														
DRY BULB 25.8		WET BULB 24.0		WIND SPEED 22, DIR. 07		BAR. 12		WEATHER 01		VIS. 4		CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	26.91	34.85	4.65		22.65	520.4	0	26.91	34.85	22.65	520.4	0.000		
10	26.93	34.84	4.70	0.41	22.64	522.1	10	26.93	34.84	22.64	522.1	0.053		
52	26.90	34.85	4.61	0.94	22.66	522.2	20	26.93	34.84	22.64	522.4	0.105		
76	26.93	34.84			22.64	524.8	30	26.92	34.84	22.65	522.5	0.158		
102	21.48	34.54	4.55	0.54	22.64	524.9	50	26.90	34.85	22.66	522.3	0.263		
128	13.18	34.47	4.42	0.82	24.03	392.5	75	26.93	34.84	22.64	524.8	0.395		
153	12.00	34.68	0.32	2.41	25.97	208.3	100	22.15	34.57	23.87	408.0	0.512		
177	11.50	34.74	0.26	2.45	26.36	171.3	150	11.95	34.65	26.35	172.3	0.659		
204	11.14	34.74	0.37	2.45	26.50	158.4	200	11.19	34.74	26.56	153.1	0.741		
229	10.83	34.72	0.41	2.78	26.57	152.6	250	10.63	34.74	26.66	144.9	0.816		
254	10.59	34.74	0.52	2.70	26.67	144.2	300	10.17	34.71	26.72	140.1	0.888		
279	10.34	34.72	0.48	2.69	26.69	141.9	400	9.54	34.69	26.81	133.2	1.025		
304	10.14	34.71	0.46	2.83	26.72	139.8	500	8.91	34.67	26.90	126.3	1.156		
405	9.51	34.69	0.57	2.80	26.81	132.9	600	7.88	34.60	27.00	117.6	1.280		
508	8.85	34.67	0.39	3.00	26.90	125.7	700	6.84	34.56	27.11	106.6	1.393		
609	7.78	34.59	0.37	3.33	27.01	116.7	800	5.95	34.55	27.22	96.2	1.495		
812	5.85	34.55	0.61	3.56	27.24	94.9	1000	4.86	34.56	27.36	83.4	1.677		
1013	4.81	34.56	0.78	3.33	27.37	82.7	1200	3.96	34.58	27.48	72.3	1.835		
1214	3.90	34.58	1.28	3.27	27.48	71.6	1500	3.06	34.61	27.59	61.4	2.038		
1518	3.02	34.61	1.69	3.19	27.59	60.9								

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 16, STATION 27, 11-30N LAT, 147-59W LONG, MAY 25, 1965, CCGO G.C.T.													
DRY BULB 26.0		WET BULB 23.2		WIND SPEED 22, DIR. C4		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.60	34.72	4.68		22.66	520.3	0	26.60	34.72	22.66	520.3	0.000	
11	26.61	34.72	4.85	0.42	22.65	521.1	10	26.61	34.72	22.65	521.0	0.052	
53	26.53	34.72	4.79	0.35	22.68	520.4	20	26.60	34.72	22.66	520.9	0.105	
75	26.54	34.71			22.67	522.3	30	26.58	34.72	22.66	520.8	0.157	
78	26.54	34.71	4.60	0.32	22.67	522.4	50	26.54	34.72	22.68	520.4	0.262	
102	20.87	34.61	4.52	0.62	24.27	370.3	75	26.54	34.71	22.67	522.3	0.394	
128	14.65	34.44	1.88	1.71	25.64	239.9	100	21.49	34.62	24.09	386.7	0.508	
154	12.21	34.45	1.20	2.32	26.14	192.0	150	12.41	34.44	26.09	196.5	0.655	
178	11.34	34.54	0.80	2.64	26.37	170.2	200	10.98	34.58	26.47	161.2	0.745	
205	10.92	34.59	0.54	2.77	26.49	159.8	250	10.30	34.64	26.64	146.2	0.823	
230	10.46	34.62	0.45	2.60	26.60	150.2	300	9.70	34.64	26.74	137.7	0.894	
255	10.27	34.65	0.29	2.79	26.65	145.3	400	8.63	34.60	26.88	125.3	1.027	
281	9.94	34.66	0.35	2.82	26.72	139.6	500	7.70	34.55	26.99	116.3	1.149	
305	9.64	34.63	0.31	2.78	26.74	137.4	600	6.94	34.54	27.09	107.9	1.262	
406	8.57	34.60	0.43	3.10	26.89	124.5	700	6.23	34.53	27.18	99.8	1.367	
509	7.62	34.55	0.57	2.89	27.00	115.6	800	5.57	34.53	27.26	92.5	1.464	
610	6.87	34.54	0.65	3.38	27.10	107.0	1000	4.56	34.55	27.39	80.3	1.639	
812	5.50	34.53	0.85	3.04	27.27	91.7	1200	3.87	34.57	27.48	72.0	1.793	
1015	4.50	34.55	1.07	3.43	27.40	79.5	1500	3.07	34.60	27.58	62.2	1.998	
1217	3.82	34.57	1.18	2.89	27.48	71.4							
1520	3.03	34.60	1.73	3.39	27.59	61.7							

TEMPERATURE ERROR TEMP AT 100. METERS IS 0.13

CROMWELL 16, STATION 29, 12-58N LAT, 147-58W LONG, MAY 25, 1965, 1000 G.C.T.													
DRY BULB 23.8		WET BULB 21.9		WIND SPEED 24, DIR. 06		BAR. 16		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.38	34.64	4.80		22.97	489.8	0	25.38	34.64	22.97	489.8	0.000	
10	25.37	34.65	4.90	0.49	22.99	489.2	10	25.37	34.65	22.99	489.2	0.049	
51	25.39	34.64	4.72	0.54	22.97	492.1	20	25.38	34.65	22.98	489.8	0.099	
75 ^Δ	25.28	34.62			22.99	491.3	30	25.39	34.65	22.98	490.4	0.148	
77	25.25	34.61	4.73	1.40	22.99	491.2	50	25.39	34.64	22.97	492.0	0.247	
102	22.13	34.56	4.90	0.53	23.87	408.3	75	25.28	34.62	22.99	491.3	0.371	
127	17.10	34.48	3.45	1.87	25.11	290.2	100	22.51	34.56	23.76	418.3	0.485	
153	13.54	34.31	2.73	1.82	25.77	227.7	150	13.85	34.32	25.71	232.9	0.649	
178	12.14	34.47	1.09	2.57	26.17	189.9	200	10.89	34.46	26.39	169.1	0.751	
204	10.71	34.45	1.15	2.74	26.42	166.4	250	10.06	34.57	26.63	147.2	0.830	
229	10.34	34.53	0.70	2.73	26.55	154.8	300	9.48	34.57	26.72	139.1	0.903	
254	10.01	34.58	0.40	3.27	26.64	146.1	400	8.36	34.56	26.90	124.0	1.035	
280	9.69	34.57	0.29	2.96	26.69	142.1	500	7.43	34.53	27.01	114.0	1.155	
305	9.43	34.57	0.31	2.85	26.73	138.4	600	6.55	34.51	27.12	104.5	1.266	
405	8.30	34.56	0.25	2.80	26.90	123.3	700	5.82	34.51	27.21	95.8	1.367	
507	7.37	34.53	0.41	3.15	27.02	113.4	800	5.24	34.53	27.29	88.3	1.460	
608	6.48	34.51	0.38	2.74	27.12	103.8	1000	4.39	34.56	27.42	77.4	1.628	
811	5.18	34.53	0.57	3.56	27.30	87.5	1200	3.84	34.57	27.48	71.5	1.779	
1013	4.35	34.56	0.85	3.23	27.42	76.9	1500	3.10	34.60	27.58	62.6	1.982	
1215	3.80	34.57	1.32	2.72	27.49	71.1							
1517	3.07	34.60	1.71	2.45	27.58	62.2							

CROMWELL 16, STATION 29, 14-28N LAT, 147-59W LONG, MAY 25, 1965, 2000 G.C.T.													
DRY BULB 22.7		WET BULB 21.4		WIND SPEED 17, DIR. C8		BAR. 18		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.84	34.49	4.83		23.03	484.9	0	24.84	34.49	23.03	484.9	0.000	
10	24.82	34.48	5.15	0.85	23.02	485.5	10	24.82	34.48	23.02	485.5	0.049	
30	24.81	34.48			23.03	486.0	20	24.81	34.48	23.03	485.7	0.098	
50	24.81	34.48	4.86	0.59	23.03	486.7	30	24.81	34.48	23.03	486.0	0.147	
76	22.77	34.69	5.04	0.65	23.75	415.3	50	24.81	34.48	23.03	486.7	0.245	
101	21.15	35.07	4.89	0.64	24.53	345.5	75	22.87	34.68	23.75	418.8	0.359	
126	19.02	34.96	4.50	0.64	25.00	300.6	100	21.22	35.06	24.50	348.1	0.455	
152	16.81	34.67	4.27	0.77	25.32	270.6	150	17.00	34.70	25.30	272.9	0.612	
177	13.38	34.28	3.54	1.45	25.78	227.4	200	11.81	34.28	26.03	198.4	0.731	
202	11.73	34.29	2.57	2.37	26.11	196.2	250	10.81	34.53	26.46	163.5	0.822	
228	11.00	34.43	1.51	2.53	26.35	173.5	300	10.25	34.65	26.65	146.2	0.900	
254	10.78	34.54	0.81	2.58	26.48	162.1	400	9.00	34.62	26.84	129.7	1.039	
279	10.20	34.56	0.66	2.89	26.59	151.3	500	7.97	34.56	26.95	119.8	1.165	
303	10.27	34.66	0.38		26.66	145.7	600	6.98	34.53	27.07	109.0	1.281	
404	8.92	34.61	0.22	3.07	26.85	129.2	700	6.17	34.51	27.17	100.5	1.386	
506	7.92	34.56	0.45	2.70	26.96	119.3	800	5.52	34.51	27.25	93.3	1.484	
608	6.90	34.53	0.47	3.24	27.08	108.2	1000	4.52	34.55	27.39	79.9	1.660	
810	5.46	34.51	0.57	2.74	27.25	92.6	1200	3.86	34.58	27.49	71.1	1.812	
1011	4.48	34.53	0.85	3.37	27.40	79.2	1500	3.08	34.60	27.58	62.2	2.015	
1213	3.82	34.58	1.21	3.46	27.49	70.6							
1517	3.05	34.60	1.65	3.23	27.58	61.9							

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL 16, STATION 30, 15-55N LAT, 147-57W LONG, MAY 26, 1965, 0500 G.C.T.						BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 7	
DRY BULB 24.0 WET BULB 21.8 WIND SPEED 20, DIR. 08													
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0	24.82	34.58	4.83		23.10	477.9	0	24.82	34.58	23.10	477.9	0.000	
9	24.81	34.57	4.94	0.32	23.10	478.6	10	24.81	34.57	23.10	478.7	0.048	
48	24.81	34.59	4.71	0.40	23.11	478.7	20	24.81	34.57	23.10	478.8	0.096	
50A	24.81	34.59			23.11	478.8	30	24.81	34.58	23.10	478.9	0.145	
74	24.78	34.59	4.79	0.44	23.12	478.9	50	24.81	34.59	23.11	478.8	0.241	
96	23.13	34.73	5.02	0.40	23.71	423.1	75	24.73	34.60	23.14	477.0	0.361	
120	20.84	34.85	4.58	0.67	24.44	354.1	100	22.77	34.76	23.84	411.3	0.473	
144	18.48	34.79	4.24	0.87	25.01	300.5	150	17.68	34.71	25.15	287.4	0.649	
167	15.36	34.46	3.36	1.18	25.50	254.5	200	12.10	34.22	25.98	208.0	0.774	
190	12.88	34.26	2.98	1.42	25.86	219.5	250	10.12	34.35	26.44	165.1	0.868	
213	11.32	34.21	2.83	1.96	26.12	194.9	300	9.74	34.52	26.64	146.9	0.947	
236	10.49	34.30	2.13	2.52	26.34	174.4	400	7.66	34.39	26.87	126.1	1.085	
259	9.97	34.38	1.53	2.31	26.49	160.3	500	6.80	34.44	27.02	112.0	1.205	
282	10.04	34.51	0.77	2.62	26.58	152.4	600	6.13	34.47	27.14	101.7	1.313	
372	8.01	34.39	0.83	2.95	26.81	130.8	700	5.57	34.49	27.22	94.4	1.412	
461	7.12	34.42	0.61	3.19	26.97	117.2	800	5.09	34.50	27.29	88.4	1.504	
551	6.44	34.46	0.50	3.11	27.09	106.1	1000	4.32	34.53	27.40	78.3	1.673	
731	5.42	34.49	0.59	3.39	27.24	92.6	1200	3.69	34.57	27.49	69.9	1.823	
912	4.63	34.52	0.76	2.86	27.36	82.3							
1093	4.03	34.55	1.00	3.31	27.45	74.4							
1373	3.25	34.59	1.39	3.38	27.56	64.1							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.13

CROMWELL 16, STATION 31, 17-30N LAT, 148-1W LONG, MAY 26, 1965, 1500 G.C.T.						BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3	
DRY BULB 23.6 WET BULB 20.7 WIND SPEED 18, DIR. 07													
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0	24.43	34.44	4.77		23.11	476.8	0	24.43	34.44	23.11	476.8	0.000	
10	24.41	34.44	5.00	0.47	23.12	476.6	10	24.41	34.44	23.12	476.6	0.048	
30A	24.40	34.44			23.12	477.1	20	24.46	34.43	23.10	479.1	0.096	
50	23.46	34.58	5.10	0.66	23.50	441.3	30	24.40	34.44	23.12	477.1	0.144	
74	23.08	34.82	5.12	0.49	23.79	414.4	50	23.46	34.58	23.50	441.3	0.237	
98	22.24	34.93	5.05	0.46	24.12	384.4	75	23.05	34.82	23.81	413.2	0.344	
123	21.53	35.15	4.87	0.33	24.48	350.6	100	22.21	34.95	24.14	382.0	0.445	
146	19.50	34.98	4.71	0.94	24.90	311.7	150	19.35	34.97	24.93	308.6	0.619	
171	18.50	34.90	4.57	0.46	25.09	293.9	200	15.62	34.52	25.48	256.8	0.761	
197	15.90	34.55	4.19	1.59	25.44	260.5	250	11.19	34.21	26.15	193.5	0.875	
222	13.62	34.14	3.55	1.90	25.78	228.9	300	9.66	34.23	26.43	167.1	0.965	
247	11.31	34.21	3.54	2.16	26.12	195.5	400	7.63	34.29	26.79	133.2	1.117	
271	10.66	34.24	2.80	2.02	26.26	182.5	500	6.74	34.41	27.01	112.9	1.241	
294	9.84	34.23	2.79	2.28	26.40	169.9	600	6.04	34.44	27.13	102.6	1.350	
394	7.70	34.28	1.35	2.53	26.77	134.8	700	5.48	34.47	27.22	94.5	1.450	
493	6.80	34.41	0.68	3.02	27.00	113.9	800	5.00	34.49	27.29	87.8	1.542	
591	6.09	34.44	0.49	2.95	27.12	103.4	1000	4.14	34.53	27.42	76.2	1.708	
788	5.06	34.49	0.77	3.04	27.29	88.7	1200	3.52	34.56	27.51	68.0	1.854	
985	4.19	34.53	1.07	3.19	27.41	76.8							
1183	3.67	34.56	1.26	3.68	27.50	69.4							
1479	2.85	34.60	1.57	2.86	27.60	59.3							

CROMWELL 16, STATION 32, 19-2N LAT, 148-2W LONG, MAY 27, 1965, 0300 G.C.T.						BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 7	
DRY BULB 23.2 WET BULB 19.8 WIND SPEED 19, DIR. 06													
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0	23.75	34.37	5.02		23.26	462.6	0	23.75	34.37	23.26	462.6	0.000	
10	23.76	34.37	5.17	0.41	23.26	463.3	10	23.76	34.37	23.26	463.3	0.047	
30A	23.72	34.37			23.27	462.9	20	23.74	34.37	23.26	463.2	0.093	
51	23.69	34.37	4.91	0.48	23.28	462.9	30	23.72	34.37	23.27	462.9	0.140	
77	22.39	34.52	5.11	0.47	23.76	417.3	50	23.70	34.37	23.27	463.2	0.233	
102	20.30	34.72	4.69	1.05	24.47	351.0	75	22.53	34.50	23.71	422.1	0.345	
126	17.82	34.64	3.78	1.11	25.06	295.1	100	20.57	34.71	24.41	356.6	0.443	
153	15.83	34.48	3.61	1.25	25.41	262.7	150	16.02	34.50	25.38	265.4	0.600	
178	14.12	34.30	3.44	1.38	25.64	240.7	200	12.21	34.18	25.94	212.6	0.720	
204	11.87	34.17	3.29	1.54	25.99	207.6	250	9.53	34.11	26.36	172.5	0.817	
228	10.51	34.15	3.35	2.18	26.22	185.6	300	8.67	34.18	26.55	154.8	0.900	
253	9.42	34.11	3.50	1.90	26.37	171.1	400	7.15	34.26	26.84	128.6	1.043	
280	8.94	34.15	2.90	2.19	26.48	161.1	500	5.80	34.30	27.04	109.0	1.162	
304	8.62	34.19	2.35	2.11	26.56	153.6	600	5.40	34.38	27.16	98.7	1.267	
404	7.09	34.26	1.12	3.02	26.84	127.7	700	5.01	34.44	27.25	90.7	1.363	
506	5.74	34.30	0.77	2.93	27.05	108.1	800	4.60	34.48	27.33	84.0	1.451	
607	5.39	34.39	0.72	3.22	27.17	98.2	1000	3.92	34.54	27.45	73.1	1.610	
810	4.56	34.48	0.81	3.30	27.33	83.4	1200	3.40	34.57	27.53	66.3	1.751	
1009	3.89	34.54	1.02	3.51	27.45	72.7	1500	2.72	34.61	27.62	57.3	1.939	
1210	3.38	34.57	1.16	3.30	27.53	66.0							
1513	2.70	34.61	1.59	2.64	27.62	57.0							

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL 16, STATION		33, 20-29N LAT, 148- 5W LONG, MAY 27, 1965, 1200 G.C.T.				27, 1965, 1200 G.C.T.		VIS.		CLOUD TYPE 8, COVER			
DRY BULB 22.1	WET BULB 19.6	WIND SPEED 16, DIR. 06				BAR. 1E	WEATHER 02						
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.05	34.67	5.05		23.69	421.5	0	23.05	34.67	23.69	421.5	0.000	
9	23.07	34.66	5.26	0.37	23.68	423.2	10	23.08	34.66	23.67	423.5	0.043	
48	22.92	34.66	5.14	0.78	23.72	420.5	20	23.12	34.65	23.66	425.5	0.085	
72	22.14	34.71	5.14	0.46	23.98	396.7	30	23.10	34.65	23.66	425.5	0.128	
95	22.00	34.79	5.10	0.46	24.00	388.0	50	22.85	34.66	23.74	418.5	0.213	
119	21.84	35.00	5.03	0.39	24.28	369.5	75	22.11	34.72	23.99	395.4	0.316	
144	21.31	35.04	5.02	0.47	24.46	353.5	100	21.98	34.84	24.12	384.4	0.414	
167	20.92	35.14	4.80	0.61	24.64	336.9	150	21.24	35.07	24.50	349.5	0.599	
191	19.78	35.07	4.63	0.68	24.89	313.7	200	19.35	35.03	24.98	305.8	0.764	
214	18.63	34.96	4.59	0.69	25.10	294.1	250	15.75	34.53	25.46	260.3	0.907	
238	17.18	34.75	4.50	0.70	25.30	275.9	300	11.71	34.19	26.03	205.5	1.024	
263	14.17	34.31	4.21	1.06	25.64	243.3	400	8.16	34.13	26.59	152.9	1.205	
286	12.49	34.22	2.99	1.51	25.91	217.4	500	6.52	34.20	26.87	125.8	1.346	
380	8.69	34.13	3.00	2.34	26.51	160.5	600	5.86	34.33	27.07	108.3	1.464	
478	6.75	34.17	1.71	2.40	26.82	130.7	700	5.42	34.43	27.20	96.3	1.567	
573	6.00	34.30	0.96	3.26	27.02	112.3	800	5.03	34.49	27.29	88.4	1.661	
764	5.20	34.48	0.81	3.06	27.26	90.9	1000	4.20	34.51	27.40	78.7	1.830	
956	4.33	34.50	1.21	2.60	27.38	80.5	1200	3.62	34.54	27.48	70.7	1.981	
1146	3.83	34.54	1.16	3.30	27.46	73.1							
1436	3.12	34.59	1.43	3.13	27.57	63.0							

TEMPERATURE ERROR TERM AT 250. METERS IS 0.11

CROMWELL 16, STATION		34, 22- ON LAT, 148- 1W LONG, MAY 27, 1965, 2100 G.C.T.				27, 1965, 2100 G.C.T.		VIS. 8		CLOUD TYPE 8, COVER 6			
DRY BULB 22.0	WET BULB 19.5	WIND SPEED 15, DIR. 09				BAR. 20	WEATHER 01						
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.25	34.49	5.02		23.50	440.0	0	23.25	34.49	23.50	440.0	0.000	
10	23.21	34.50	5.19	0.65	23.52	438.6	10	23.21	34.50	23.52	438.6	0.044	
30 ^Δ	23.20	34.50			23.52	439.1	20	23.20	34.50	23.52	438.6	0.088	
51	23.16	34.51	5.04	0.44	23.54	438.0	30	23.20	34.50	23.52	439.1	0.133	
76	22.33	34.61	5.11	0.49	23.85	409.1	50	23.17	34.51	23.53	438.4	0.221	
100	22.16	34.82	5.06	0.80	24.06	390.3	75	22.36	34.60	23.84	410.5	0.328	
125	21.83	35.12	4.97	0.74	24.38	360.8	100	22.16	34.82	24.06	390.3	0.429	
150	20.90	35.15	4.71	0.57	24.65	335.1	150	20.90	35.15	24.65	335.1	0.612	
175	19.84	35.06	4.61	0.80	24.88	313.9	200	19.22	35.05	25.02	301.5	0.772	
201	19.20	35.05	4.66	0.43	25.03	301.1	250	16.60	34.66	25.37	269.6	0.916	
226	18.32	34.92	4.50	0.51	25.15	290.0	300	12.67	34.24	25.89	219.7	1.039	
250	16.60	34.66	4.27	1.72	25.37	269.6	400	8.67	34.08	26.47	164.3	1.233	
275	14.72	34.43	4.26	1.04	25.61	246.3	500	6.98	34.14	26.76	136.6	1.385	
300	12.67	34.24	3.52	1.65	25.89	219.7	600	5.86	34.25	27.00	114.6	1.512	
400	8.67	34.08	3.55	2.06	26.47	164.3	700	5.19	34.36	27.17	99.0	1.620	
501	6.97	34.14	2.02	2.72	26.77	136.4	800	4.77	34.45	27.29	88.2	1.714	
601	5.85	34.25	0.90	3.72	27.00	114.4	1000	4.15	34.51	27.40	77.9	1.882	
801	4.77	34.45	0.70	3.37	27.29	88.1	1200	3.53	34.57	27.51	67.7	2.030	
1002	4.14	34.51	1.00	3.32	27.40	77.9	1500	2.87	34.60	27.60	59.6	2.224	
1202	3.52	34.57	1.20	3.39	27.51	67.6							
1504	2.86	34.60	1.54	3.74	27.60	59.6							

CROMWELL 16, STATION		35, 23-28N LAT, 148- 0W LONG, MAY 28, 1965, 0600 G.C.T.				28, 1965, 0600 G.C.T.		VIS. 7		CLOUD TYPE 8, COVER 4			
DRY BULB 22.7	WET BULB 19.8	WIND SPEED 16, DIR. 08				BAR. 15	WEATHER 02						
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.64	34.53	4.98		23.41	448.0	0	23.64	34.53	23.41	448.0	0.000	
11	23.66	34.53	5.22	0.37	23.41	449.0	10	23.66	34.53	23.41	448.9	0.045	
30 ^Δ	23.65	34.53			23.41	449.4	20	23.67	34.53	23.40	449.9	0.090	
51	23.43	34.60	5.00	0.59	23.53	439.0	30	23.65	34.53	23.41	449.4	0.136	
75	22.32	34.94	5.07	0.65	24.10	385.0	50	23.45	34.59	23.52	440.1	0.225	
100	22.03	35.11	5.29	0.84	24.31	365.9	75	22.32	34.94	24.10	385.0	0.329	
124	21.21	35.18	4.79	0.50	24.59	340.0	100	22.03	35.11	24.31	365.9	0.424	
150	19.99	35.05	4.69	0.62	24.82	319.0	150	19.99	35.05	24.82	319.0	0.596	
174	19.09	35.00	4.54	0.57	25.02	301.1	200	17.87	34.83	25.19	285.0	0.749	
199	17.94	34.84	4.47	0.74	25.18	285.8	250	14.46	34.40	25.65	242.2	0.882	
225	16.10	34.59	4.17	0.93	25.43	262.8	300	11.67	34.16	26.02	206.6	0.995	
249	14.52	34.41	4.48	0.89	25.64	242.8	400	8.50	34.05	26.46	165.2	1.182	
274	13.16	34.26	4.49	1.11	25.81	227.1	500	6.63	34.08	26.77	135.9	1.334	
298	11.76	34.17	4.65	1.07	26.01	207.8	600	5.58	34.17	26.97	117.0	1.462	
397	8.66	34.05	3.91	2.28	26.45	166.3	700	4.95	34.27	27.13	102.3	1.573	
497	6.67	34.08	2.06	2.14	26.76	136.6	800	4.70	34.40	27.25	91.2	1.671	
795	4.72	34.39	0.66	2.72	27.25	91.9	1000	4.13	34.60	27.48	71.2	1.835	
993	4.15	34.60	1.04	2.60	27.47	71.3	1200	3.61	34.60	27.53	66.3	1.974	
1192	3.64	34.53	1.10	2.52	27.47	71.9							
1453	2.98	34.57	1.43	2.40	27.57	62.9							

TEMPERATURE ERROR TERM AT 600. METERS IS 0.18
TEMPERATURE ERROR TERM AT 700. METERS IS 0.17

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL 16, STATION 36, 25-3N LAT, 147-56W LONG, MAY 28, 1965, 1500 G.C.T.						BAR. 20			WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 2				
DRY BULB 21.5 WET BULB 18.9 WIND SPEED 12, DIR. 10													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	22.82	35.03	5.10		24.03	389.2	0	22.82	35.03	24.03	389.2	0.000	
10	22.83	35.02	5.21	0.61	24.02	390.6	10	22.83	35.02	24.02	390.6	0.039	
30 ^Δ	22.82	35.03			24.03	390.4	20	22.90	35.02	24.00	393.1	0.079	
51	21.62	35.15	5.25	0.29	24.46	350.3	30	22.82	35.03	24.03	390.4	0.118	
76	21.26	35.19	5.13	0.37	24.59	338.8	50	21.68	35.14	24.44	352.3	0.193	
100	20.93	35.21	5.10	0.56	24.69	329.7	75	21.26	35.19	24.59	338.9	0.280	
125	20.19	35.18	5.01	0.50	24.87	313.8	100	20.93	35.21	24.69	329.7	0.364	
151	19.37	35.11	4.74	0.55	25.03	299.2	150	19.41	35.11	25.02	299.8	0.523	
174	18.22	34.93	4.69	0.85	25.18	285.1	200	16.32	34.66	25.43	261.7	0.664	
201	16.24	34.65	4.69	0.62	25.44	260.8	250	13.58	34.36	25.80	227.4	0.788	
225	14.88	34.48	4.72	0.74	25.62	244.6	300	11.56	34.22	26.08	200.7	0.896	
250	13.58	34.36	4.67	1.07	25.80	227.4	400	8.95	34.07	26.42	169.4	1.082	
275	12.40	34.26	4.86	1.40	25.96	212.5	500	6.92	34.02	26.68	144.6	1.241	
299	11.59	34.22	4.85	1.10	26.08	201.1	600	5.64	34.06	26.88	125.6	1.377	
399	8.97	34.07	4.32	1.66	26.42	169.7	700	4.80	34.18	27.07	107.5	1.495	
499	6.94	34.02	3.00	2.39	26.68	144.8	800	4.27	34.31	27.23	92.2	1.596	
598	5.66	34.06	1.74	3.38	26.87	125.9	1000	3.74	34.47	27.41	75.9	1.766	
798	4.28	34.31	0.47	3.58	27.23	92.5	1200	3.30	34.55	27.52	66.7	1.911	
999	3.74	34.47	0.91	3.34	27.41	76.0							
1198	3.32	34.53	1.25	3.67	27.50	68.1							
1497	2.80	34.58	1.51	3.71	27.59	60.3							

CROMWELL 16, STATION 37, 26-29N LAT, 148-3W LONG, MAY 28, 1965, 2300 G.C.T.						BAR. 23			WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 4				
DRY BULB 20.7 WET BULB 18.5 WIND SPEED 15, DIR. 08													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	22.95	34.93	5.07		23.92	400.0	0	22.95	34.93	23.92	400.0	0.000	
10	22.91	34.94	5.23	0.76	23.93	398.6	10	22.91	34.94	23.93	398.6	0.040	
30 ^Δ	22.60	34.98			24.05	388.0	20	22.83	34.95	23.97	396.0	0.080	
51	21.32	35.16	5.17	0.39	24.55	341.6	30	22.60	34.98	24.05	388.0	0.120	
77	20.24	35.18	5.19	0.50	24.85	313.3	50	21.39	35.15	24.52	344.0	0.193	
101	19.88	35.16	5.20	0.49	24.93	306.5	75	20.30	35.18	24.84	314.5	0.276	
127	19.37	35.12	4.96	0.95	25.04	297.6	100	19.89	35.16	24.93	306.7	0.355	
152	18.16	34.92	4.80	0.46	25.19	283.7	150	18.29	34.94	25.17	285.1	0.504	
177	16.05	34.62	4.77		25.46	258.1	200	14.87	34.47	25.61	244.4	0.637	
202	14.79	34.46	4.77	0.87	25.62	243.5	250	13.07	34.33	25.88	219.3	0.754	
228	13.85	34.33	4.85	0.81	25.76	230.8	300	11.36	34.21	26.12	197.4	0.859	
252	13.00	34.33	4.95	1.22	25.89	218.3	400	9.14	34.10	26.41	170.1	1.045	
278	12.09	34.26	4.94	1.29	26.02	206.8	500	6.80	34.02	26.70	142.7	1.203	
302	11.30	34.21	4.90	1.36	26.13	196.6	600	5.86	34.07	26.86	128.0	1.339	
403	9.09	34.10	4.58	1.60	26.42	169.4	700	4.97	34.19	27.06	109.1	1.459	
504	6.72	34.02	3.23	2.28	26.71	141.8	800	4.23	34.31	27.24	91.7	1.561	
603	5.84	34.07	1.50	3.00	26.86	127.6	1000	3.75	34.45	27.39	77.8	1.732	
805	4.20	34.32	0.70	3.35	27.25	90.8	1200	3.26	34.53	27.51	67.6	1.879	
1007	3.74	34.45	0.81	3.29	27.40	77.5	1500	2.73	34.59	27.60	58.8	2.072	
1206	3.25	34.53	1.17	2.82	27.51	67.4							
1509	2.72	34.59	1.54	3.35	27.61	58.7							

CROMWELL 16, STATION 38, 24-57N LAT, 150-59W LONG, MAY 29, 1965, 1700 G.C.T.						BAR. 23			WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 5				
DRY BULB 22.8 WET BULB 19.3 WIND SPEED 12, DIR. 09													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.59	34.75			23.59	430.7	0	23.59	34.75	23.59	430.7	0.000	
10	23.62	34.75			23.58	431.9	10	23.62	34.75	23.58	431.9	0.043	
50	22.33	35.11			24.23	372.1	20	23.44	34.83	23.70	421.6	0.086	
74	21.21	35.17			24.59	338.9	30	23.16	34.91	23.84	408.1	0.128	
98	20.38	35.20			24.83	316.2	50	22.33	35.11	24.23	372.1	0.207	
123	19.84	35.18			24.96	304.9	75	21.17	35.17	24.60	337.7	0.296	
148	19.13	35.13			25.11	291.7	100	20.33	35.20	24.84	315.1	0.378	
173	18.62	35.03			25.16	287.4	150	19.09	35.12	25.11	291.4	0.531	
197	17.65	34.86			25.27	277.5	200	17.43	34.83	25.30	274.8	0.674	
222	15.69	34.59			25.52	253.8	250	14.14	34.43	25.73	233.8	0.802	
245	14.40	34.45			25.70	237.3	300	12.19	34.27	26.00	208.7	0.914	
270	13.23	34.36			25.87	221.0	400	9.09	34.08	26.41	170.7	1.105	
295	12.36	34.28			25.98	210.8	500	6.84	34.03	26.70	142.5	1.263	
393	9.28	34.09			26.38	173.0	600	5.55	34.11	26.93	120.9	1.396	
493	6.96	34.03			26.68	144.2	700	4.80	34.22	27.10	104.4	1.510	
591	5.64	34.10			26.91	122.6	800	4.41	34.33	27.23	92.4	1.610	
787	4.44	34.32			27.22	93.5	1000	4.07	34.48	27.38	79.5	1.783	
985	4.11	34.47			27.38	80.3	1200	3.52	34.53	27.48	70.7	1.936	
1157	3.63	34.52			27.46	72.3	1500	2.89	34.58	27.58	61.6	2.137	
1453	2.98	34.57			27.57	62.9	2000	2.12	34.63	27.69	50.8	2.422	
1970	2.15	34.63			27.69	51.2	2500	1.81	34.66	27.74	46.7	2.671	
2476	1.82	34.66			27.74	46.9	3000	1.64	34.68	27.77	44.7	2.904	
2981	1.64	34.68			27.76	44.7	4000	1.48	34.70	27.79	43.7	3.357	
3989	1.50	34.70			27.79	44.2							
4998	1.50	34.70			27.79	46.8							

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL	16, STATION	39, 25-	ON LAT, 154- 1W LONG, MAY			30, 1965, 1100 G.C.T.							
DRY BULB	21.7	WET BULB	19.7	WIND SPEED 18, DIR. 08		BAR. 24	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 3				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.43	35.05	4.94		23.87	404.6	0	23.43	35.05	23.87	404.6	0.000	
10	23.42	35.04	5.03	0.39	23.86	405.4	10	23.42	35.04	23.86	405.4	0.041	
52	22.28	35.12	5.29	0.53	24.25	370.1	20	23.26	35.05	23.92	400.8	0.081	
77	21.30	35.20	5.28	0.65	24.58	339.2	30	23.03	35.06	23.99	393.8	0.121	
101	20.83	35.24	5.08	0.58	24.74	325.0	50	22.36	35.11	24.22	372.7	0.199	
153	19.33	35.15	4.95	0.31	25.07	295.4	75	21.37	35.19	24.56	341.5	0.289	
176	18.77	35.07	5.11	0.38	25.15	288.3	100	20.85	35.24	24.74	325.4	0.373	
205	17.16	34.78	4.65	0.83	25.33	272.2	150	19.42	35.16	25.05	296.8	0.529	
228	15.25	34.52	4.63	0.74	25.57	249.6	200	17.51	34.84	25.29	275.8	0.674	
252	14.04	34.41	4.56	1.45	25.74	233.1	250	14.13	34.42	25.73	234.3	0.802	
278	12.69	34.30	4.58	0.97	25.93	215.2	300	11.82	34.20	26.02	206.7	0.913	
303	11.72	34.19	4.68	0.78	26.03	205.7	400	9.09	34.08	26.40	170.9	1.104	
404	8.97	34.08	4.29	1.66	26.42	169.0	500	5.95	34.02	26.81	131.4	1.257	
449	6.85	34.03	3.00	1.81	26.70	142.1	600	5.52	34.09	26.92	121.6	1.384	
570	5.74	34.06	1.73	2.76	26.86	126.6	700	4.91	34.23	27.10	105.3	1.499	
722	4.80	34.26	0.71	3.26	27.13	101.7	800	4.53	34.35	27.24	92.2	1.599	
876	4.34	34.43	0.90	3.22	27.32	85.0	1000	4.09	34.49	27.39	78.6	1.772	
1032	4.03	34.50	0.99	3.26	27.41	77.5	1200	3.57	34.55	27.49	70.0	1.922	
1274	3.39	34.54	1.26	3.30	27.50	68.8							

TEMPERATURE ERROR TERM AT 500. METERS IS 0.26

CROMWELL	16, STATION	40, 24-58N LAT, 156-56W LONG, MAY	31, 1965, 0200 G.C.T.										
DRY BULB	24.6	WET BULB	20.2	WIND SPEED 12, DIR. 10		BAR. 23	WEATHER 02	VIS. 8	CLOUD TYPE 1, COVER 5				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.13	34.77			23.45	444.4	0	24.13	34.77	23.45	444.4	0.000	
10	24.24	34.76			23.41	448.7	10	24.24	34.76	23.41	448.7	0.045	
20 ^Δ	24.24	34.76			23.41	449.1	20	24.24	34.76	23.41	449.1	0.090	
30 ^Δ	24.24	34.76			23.41	449.5	30	24.24	34.76	23.41	449.5	0.135	
49	23.15	34.71			23.69	423.3	50	23.11	34.72	23.71	421.6	0.223	
75	22.04	34.95			24.19	376.8	75	22.04	34.95	24.19	376.8	0.324	
100	20.38	34.96			24.65	333.6	100	20.38	34.96	24.65	333.6	0.413	
124	18.66	34.81			24.98	302.7	150	17.24	34.68	25.23	279.6	0.568	
149	17.33	34.69			25.22	280.9	200	13.29	34.31	25.82	223.9	0.695	
173	15.13	34.45			25.54	250.5	250	10.96	34.18	26.16	191.9	0.799	
198	13.39	34.32			25.81	225.2	300	9.23	34.09	26.39	170.5	0.891	
223	12.26	34.24			25.97	210.1	400	7.45	34.09	26.66	145.3	1.050	
248	11.06	34.18			26.15	193.4	500	5.99	34.11	26.88	125.0	1.187	
273	9.90	34.13			26.31	177.8	600	5.23	34.23	27.06	108.3	1.304	
298	9.27	34.09			26.38	171.0	700	4.72	34.33	27.20	95.3	1.407	
397	7.50	34.09			26.65	146.0	800	4.35	34.41	27.30	85.6	1.499	
496	6.03	34.11			26.87	125.8	1000	3.72	34.49	27.43	74.2	1.660	
595	5.26	34.22			27.05	109.0	1200	3.26	34.54	27.52	66.7	1.803	
794	4.37	34.41			27.30	86.1							
994	3.74	34.49			27.43	74.5							
1180	3.31	34.54			27.51	67.2							
1428	2.90	34.55			27.56	63.2							

CROMWELL	16, STATION	41, 23-30N LAT, 156-58W LONG, MAY	31, 1965, 1000 G.C.T.										
DRY BULB	22.2	WET BULB	20.5	WIND SPEED 18, DIR. 09		BAR. 23	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.80	34.76			23.54	435.9	0	23.80	34.76	23.54	435.9	0.000	
10	24.02	34.75			23.47	443.2	10	24.02	34.75	23.47	443.2	0.044	
20 ^Δ	24.02	34.75			23.47	443.6	20	24.02	34.75	23.47	443.6	0.089	
30 ^Δ	24.02	34.75			23.47	443.9	30	24.02	34.75	23.47	443.9	0.134	
51	22.48	34.98			24.09	385.5	50	22.57	34.97	24.05	389.0	0.218	
75	21.13	35.10			24.55	341.9	75	21.13	35.10	24.55	341.9	0.310	
99	20.12	35.12			24.84	315.4	100	20.05	35.11	24.85	314.3	0.392	
123	18.49	34.91			25.10	291.3	150	17.28	34.74	25.27	276.0	0.541	
149	17.35	34.75			25.26	277.0	200	13.78	34.35	25.75	231.1	0.669	
171	15.70	34.57			25.50	253.9	250	10.93	34.16	26.15	192.5	0.776	
196	14.06	34.37			25.71	234.9	300	9.31	34.11	26.39	170.1	0.867	
220	12.44	34.25			25.94	212.6	400	7.05	34.04	26.68	143.5	1.025	
245	11.12	34.17			26.13	195.1	500	5.54	34.09	26.91	121.3	1.159	
268	10.34	34.14			26.24	184.3	600	4.74	34.21	27.10	103.5	1.272	
292	9.54	34.12			26.36	173.0	700	4.42	34.33	27.23	92.0	1.371	
386	7.32	34.04			26.64	146.9	800	4.26	34.42	27.32	84.0	1.460	
483	5.74	34.07			26.87	124.8	1000	3.71	34.51	27.45	72.8	1.619	
578	4.84	34.18			27.07	106.6	1200	3.22	34.55	27.53	65.3	1.759	
770	4.34	34.40			27.30	86.3							
960	3.83	34.50			27.43	74.5							
1151	3.30	34.53			27.50	67.6							
1441	2.76	34.57			27.59	60.2							

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA		
CROMWELL	16, STATION	42, 22-	ON LAT, 156-59W LONG, MAY	31, 1965, 1900 G.C.T.				
DRY BULB 23.9	WET BULB 20.7	WIND SPEED 14, DIR. 10	BAR. 21	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 3		

OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 17

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL 17, STATION 1, 20-36N LAT, 157-14W LONG, JUNE 11, 1965, 0600 G.C.T.		WET BULB 21.9		WIND SPEED 17, DIR. 05		BAR. 22		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.38	34.55			22.91	496.3	0	25.38	34.55	22.91	496.3	0.000	
9	25.40	34.55			22.90	497.2	10	25.40	34.55	22.90	497.4	0.050	
47	25.27	34.55			22.94	494.9	20	25.40	34.54	22.90	498.0	0.100	
70	25.04	34.61			23.06	484.8	30	25.37	34.54	22.90	497.7	0.150	
93	22.95	35.06			24.01	394.2	50	25.30	34.55	22.93	496.1	0.250	
100 ^Δ	22.74	35.10			24.10	385.8	75	24.57	34.71	23.27	464.2	0.371	
116	22.41	35.16			24.24	373.1	100	22.74	35.10	24.10	385.8	0.478	
139	21.00	35.15			24.63	337.2	150	20.46	35.12	24.75	326.0	0.658	
162	19.82	35.06			24.87	314.4	200	17.36	34.78	25.28	276.9	0.810	
186	17.87	34.84			25.20	283.8	250	12.73	34.31	25.93	214.6	0.934	
209	16.97	34.73			25.33	271.7	300	10.38	34.17	26.26	183.4	1.034	
232	14.42	34.44			25.68	238.1	400	8.18	34.17	26.62	150.1	1.202	
256	12.26	34.28			26.00	208.0	500	6.30	34.22	26.92	121.1	1.339	
279	11.06	34.20			26.16	192.6	600	5.53	34.33	27.10	104.2	1.453	
372	8.88	34.17			26.51	160.4	700	5.08	34.42	27.23	93.3	1.553	
466	6.74	34.19			26.84	128.9	800	4.80	34.47	27.30	87.0	1.644	
560	5.78	34.29			27.04	110.0	1000	4.18	34.52	27.41	77.7	1.811	
748	4.95	34.45			27.27	89.8	1200	3.56	34.56	27.50	69.0	1.959	
938	4.41	34.50			27.37	81.3							
1130	3.69	34.55			27.48	70.6							
1428	2.96	34.58			27.58	61.7							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.11

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

TEMPERATURE ERROR TERM AT 300. METERS IS 0.12

CROMWELL 17, STATION 2, 18-59N LAT, 156-59W LONG, JUNE 11, 1965, 1600 G.C.T.		WET BULB 21.4		WIND SPEED 10, DIR. 18		BAR. 20		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.57	34.32			22.68	518.4	0	25.57	34.32	22.68	518.4	0.000	
10	25.57	34.30			22.66	520.3	10	25.57	34.30	22.66	520.3	0.052	
30 ^Δ	25.57	34.30			22.66	521.1	20	25.57	34.30	22.66	520.9	0.105	
51	25.59	34.31			22.66	521.8	30	25.57	34.30	22.66	521.1	0.157	
77	25.01	34.54			23.01	489.3	50	25.59	34.31	22.66	522.0	0.262	
103	23.46	34.94			23.78	417.4	75	25.08	34.52	22.97	493.1	0.390	
128	21.96	35.03			24.27	370.8	100	23.66	34.90	23.68	426.0	0.506	
154	21.62	35.18			24.48	351.9	150	21.64	35.16	24.46	353.7	0.702	
179	21.13	35.13			24.61	339.9	200	19.99	35.10	24.86	316.9	0.871	
205	19.64	35.07			24.93	310.7	250	15.24	34.49	25.55	252.1	1.015	
231	17.53	34.76			25.22	283.1	300	12.13	34.26	26.01	207.7	1.131	
255	14.66	34.43			25.63	244.5	400	8.94	34.22	26.53	158.5	1.316	
281	13.02	34.32			25.88	220.2	500	6.71	34.22	26.86	127.0	1.460	
306	11.88	34.25			26.05	204.3	600	5.75	34.31	27.06	108.9	1.579	
406	8.80	34.22			26.56	156.1	700	5.19	34.39	27.19	96.7	1.683	
510	6.54	34.22			26.89	124.6	800	4.77	34.45	27.29	87.9	1.776	
611	5.70	34.32			27.07	107.4	1000	4.12	34.53	27.42	76.4	1.942	
815	4.72	34.46			27.30	86.9	1200	3.60	34.57	27.50	68.7	2.089	
1016	4.08	34.53			27.43	75.8	1500	2.87	34.61	27.61	59.0	2.284	
1219	3.55	34.57			27.51	68.1							
1523	2.82	34.61			27.61	58.5							

CROMWELL 17, STATION 3, 17-30N LAT, 157-0W LONG, JUNE 12, 1965, 0100 G.C.T.		WET BULB 22.0		WIND SPEED 24, DIR. 07		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.40	34.44			22.82	504.8	0	25.40	34.44	22.82	504.8	0.000	
10	25.39	34.44			22.82	504.9	10	25.39	34.44	22.82	504.9	0.051	
50	25.40	34.43			22.81	507.5	20	25.39	34.44	22.82	505.5	0.102	
76	25.39	34.44			22.82	507.5	30	25.39	34.43	22.87	506.2	0.153	
99	25.33	34.43			22.83	507.4	50	25.40	34.43	22.81	507.5	0.255	
124	22.69	34.82			23.91	405.6	75	25.39	34.44	22.82	507.5	0.383	
149	19.89	34.82			24.67	333.1	100	25.25	34.45	22.87	504.0	0.510	
174	18.18	34.78			25.08	295.0	150	19.81	34.82	24.69	331.1	0.720	
199	16.72	34.61			25.30	274.4	200	16.61	34.60	25.32	277.0	0.873	
225	13.97	34.35			25.71	235.3	250	12.44	34.27	25.96	212.1	0.995	
249	12.49	34.27			25.95	212.8	300	10.67	34.30	26.31	178.9	1.094	
275	11.38	34.23			26.13	196.0	400	9.09	34.51	26.74	139.2	1.254	
300	10.67	34.30			26.31	178.9	500	7.71	34.46	26.91	123.4	1.387	
400	9.09	34.51			26.74	139.2	600	6.83	34.48	27.05	110.7	1.505	
500	7.71	34.46			26.91	123.4	700	6.11	34.50	27.16	100.9	1.612	
601	6.82	34.48			27.06	110.6	800	5.51	34.51	27.25	93.2	1.710	
799	5.52	34.51			27.25	93.3	1000	4.64	34.52	27.36	83.4	1.889	
1001	4.64	34.52			27.36	83.4	1200	3.97	34.52	27.43	76.8	2.051	
1201	3.97	34.52			27.43	76.8	1500	3.14	34.58	27.56	64.4	2.266	
1503	3.13	34.58			27.56	64.3							

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB 25.0	17, STATION WET BULB 22.5	4, 16- ON LAT, 157- WIND SPEED 24, DIR. 06	OW LONG, JUNE 13, 1965, 0000 G.C.T.	BAR. 17	WEATHER 01	VIS. 8	CLOUD TYPE 4, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.19	34.46			22.90	497.2	0	25.19	34.46	22.90	497.2	0.000
10	25.34	34.46			22.85	502.0	10	25.34	34.46	22.85	502.0	0.050
30 ^Δ	25.31	34.46			22.86	501.9	20	25.36	34.46	22.85	503.0	0.101
51	25.16	34.46			22.91	498.4	30	25.31	34.46	22.86	501.9	0.152
77	23.08	34.72			23.72	421.7	50	25.18	34.46	22.90	499.2	0.252
102	21.80	34.95			24.26	371.4	75	23.26	34.70	23.65	428.5	0.369
126	20.18	34.97			24.71	328.7	100	21.90	34.94	24.22	374.9	0.470
153	19.24	34.93			24.93	309.1	150	19.38	34.94	24.90	311.4	0.643
177	16.34	34.60			25.38	265.9	200	13.60	34.32	25.76	229.7	0.780
203	13.30	34.29			25.80	225.8	250	11.56	34.38	26.21	187.8	0.885
229	12.00	34.27			26.04	203.2	300	10.69	34.48	26.44	166.2	0.974
254	11.50	34.40			26.24	185.2	400	9.98	34.63	26.69	144.7	1.131
280	10.86	34.44			26.38	171.5	500	8.72	34.60	26.87	128.8	1.269
306	10.67	34.49			26.46	165.1	600	7.65	34.55	26.99	117.4	1.393
406	9.93	34.64			26.70	143.6	700	6.79	34.53	27.09	108.3	1.508
508	8.61	34.59			26.88	127.7	800	6.07	34.51	27.18	100.6	1.613
609	7.57	34.55			27.00	116.5	1000	4.99	34.53	27.32	87.4	1.803
812	5.99	34.51			27.19	99.8	1200	4.32	34.56	27.42	78.4	1.971
1015	4.93	34.53			27.33	86.5	1500	3.42	34.59	27.54	67.3	2.193
1217	4.27	34.56			27.43	77.8						
1521	3.37	34.59			27.55	66.7						

CROMWELL DRY BULB 24.7	17, STATION WET BULB 22.0	5, 14-30N LAT, 157- WIND SPEED 23, DIR. 07	1W LONG, JUNE 13, 1965, 1000 G.C.T.	BAR. 17	WEATHER 02	VIS. 6	CLOUD TYPE 2, COVER 4					
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.53	34.47			22.80	506.5	0	25.53	34.47	22.80	506.5	0.000
9	25.55	34.47			22.79	507.4	10	25.55	34.47	22.79	507.4	0.051
30 ^Δ	25.54	34.47			22.80	507.9	20	25.55	34.47	22.80	507.7	0.102
47	25.57	34.47			22.79	509.5	30	25.54	34.47	22.80	507.9	0.153
50 ^Δ	25.57	34.47			22.79	509.6	50	25.57	34.47	22.79	509.6	0.256
72	24.98	34.45			22.95	494.7	75	24.80	34.50	23.05	485.7	0.381
96	23.36	34.92			23.79	415.7	100	23.15	34.97	23.89	406.6	0.494
120	22.07	35.11			24.30	367.7	150	19.88	35.08	24.87	313.9	0.675
144	20.27	35.11			24.79	321.5	200	14.10	34.38	25.71	235.1	0.814
169	18.33	34.90			25.13	289.8	250	11.16	34.46	26.35	174.6	0.917
194	14.89	34.45			25.59	246.1	300	10.35	34.58	26.58	153.0	0.999
218	12.16	34.27			26.01	205.9	400	8.89	34.55	26.80	133.0	1.144
242	11.19	34.39			26.29	180.1	500	7.85	34.54	26.96	119.4	1.271
266	11.16	34.58			26.44	166.2	600	6.77	34.50	27.08	108.6	1.386
290	10.55	34.58			26.55	156.0	700	6.06	34.50	27.17	100.3	1.492
387	9.03	34.55			26.78	135.1	800	5.53	34.51	27.25	93.1	1.590
485	8.03	34.55			26.94	121.3	1000	4.56	34.54	27.38	80.7	1.765
582	6.92	34.50			27.06	110.3	1200	3.84	34.57	27.48	71.8	1.920
778	5.65	34.51			27.23	94.8						
973	4.67	34.54			27.37	82.0						
1169	3.97	34.56			27.46	73.6						
1464	3.21	34.60			27.57	63.6						

CROMWELL DRY BULB 24.9	17, STATION WET BULB 22.1	6, 13- 1N LAT, 157- WIND SPEED 25, DIR. 07	1W LONG, JUNE 13, 1965, 1800 G.C.T.	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 5					
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.08	34.60			22.73	513.4	0	26.08	34.60	22.73	513.4	0.000
9	26.10	34.60			22.72	514.3	10	26.10	34.60	22.72	514.4	0.052
49	26.11	34.59			22.71	516.9	20	26.11	34.60	22.72	515.3	0.104
74	26.11	34.60			22.72	517.2	30	26.11	34.59	22.71	516.0	0.156
98	26.09	34.60			22.73	517.6	50	26.11	34.59	22.71	517.0	0.260
122	24.02	34.64			23.38	455.4	75	26.13	34.60	22.71	517.9	0.390
147	18.61	34.63			24.86	315.3	100	26.02	34.60	22.75	515.2	0.520
171	14.31	34.41			25.68	236.3	150	17.97	34.60	24.99	302.2	0.726
195	12.73	34.36			25.97	209.4	200	12.32	34.34	26.04	203.1	0.853
220	10.98	34.32			26.27	181.0	250	10.68	34.50	26.47	163.0	0.946
245	10.72	34.48			26.44	165.3	300	10.11	34.58	26.63	148.4	1.024
269	10.53	34.57			26.54	156.0	400	9.07	34.60	26.82	131.9	1.166
294	10.17	34.58			26.61	149.6	500	7.67	34.54	26.98	117.3	1.291
391	9.20	34.61			26.80	133.4	600	6.67	34.51	27.10	106.3	1.404
490	7.79	34.54			26.96	118.5	700	5.84	34.51	27.21	96.0	1.507
587	6.79	34.51			27.08	107.8	800	5.20	34.53	27.30	87.5	1.599
783	5.29	34.53			27.29	88.6	1000	4.41	34.56	27.42	77.3	1.766
980	4.48	34.56			27.41	78.2	1200	3.74	34.58	27.50	69.3	1.915
1177	3.81	34.58			27.49	70.2						
1474	3.08	34.60			27.58	62.0						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA						
CROMWELL		17, STATION		7, 11-29N LAT, 156-59W LONG, JUNE 14, 1965, 0400 G.C.T.										
DRY BULB 26.1		WET BULB 22.7		WIND SPEED 23, DIR. 06		BAR. 12		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	26.10	34.65			22.76	510.4	0	26.10	34.65	22.76	510.4	0.000		
9	26.12	34.65			22.75	511.3	10	26.12	34.65	22.75	511.4	0.051		
49	26.05	34.64			22.77	511.6	20	26.11	34.65	22.75	511.8	0.103		
75	26.02	34.65			22.78	511.0	30	26.10	34.64	22.76	511.9	0.155		
100	24.82	34.63			23.14	478.2	50	26.06	34.64	22.77	511.9	0.254		
125	16.91	34.58			25.23	278.5	75	26.02	34.65	22.78	511.0	0.387		
151	13.09	34.44			25.96	209.3	100	24.82	34.63	23.14	478.2	0.511		
175	12.08	34.65			26.32	175.5	150	13.17	34.44	25.95	210.7	0.685		
201	11.54	34.74			26.49	159.7	200	11.55	34.74	26.49	160.0	0.778		
225	11.12	34.72			26.55	154.2	250	10.78	34.73	26.62	148.2	0.856		
251	10.77	34.73			26.63	147.9	300	10.18	34.71	26.71	140.3	0.929		
277	10.42	34.72			26.68	143.2	400	9.28	34.68	26.84	129.8	1.065		
301	10.17	34.71			26.72	140.2	500	8.36	34.63	26.95	120.6	1.191		
330	9.97	34.69			26.73	139.0	600	7.41	34.60	27.06	110.5	1.308		
400	9.28	34.68			26.84	129.8	700	6.54	34.57	27.17	101.2	1.415		
503	8.33	34.63			26.95	120.3	800	5.76	34.56	27.26	92.8	1.513		
805	5.72	34.56			27.26	92.3	1000	4.73	34.56	27.38	81.7	1.689		
1006	4.71	34.56			27.38	81.4	1200	3.96	34.58	27.48	72.3	1.845		
1206	3.94	34.58			27.48	72.1	1500	3.13	34.61	27.58	62.2	2.050		
1507	3.12	34.61			27.58	62.0								

CROMWELL		17, STATION		7A, 10- 1N LAT, 154- 1W LONG, JUNE 15, 1965, 0100 G.C.T.		WIND SPEED 24, DIR. 07		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5	
DRY BULB 25.5		WET BULB 24.2													
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	26.96	34.72	4.83		22.54	531.3	0	26.96	34.72	22.54	531.3	0.000			
9	26.94	34.72	4.96	0.22	22.55	531.0	10	26.94	34.72	22.55	531.0	0.054			
30Δ	26.91	34.71			22.55	531.7	20	26.92	34.71	22.55	531.3	0.107			
50	26.89	34.71	4.78	0.30	22.56	531.9	30	26.91	34.71	22.55	531.7	0.161			
75	25.56	34.66	4.95	0.30	22.93	496.6	50	26.89	34.71	22.56	531.9	0.268			
100	20.05	34.67	4.63	0.50	24.52	346.2	75	25.56	34.66	22.93	496.6	0.397			
125	15.37	34.49	3.73	0.90	25.52	251.3	100	20.05	34.67	24.52	346.2	0.503			
152	11.45	34.32	2.44	1.90	26.18	187.7	150	11.65	34.32	26.15	191.2	0.639			
175	11.48	34.71	0.24	2.53	26.48	160.2	200	11.07	34.74	26.58	151.3	0.725			
203	11.01	34.73	0.29	2.37	26.58	151.0	250	10.45	34.75	26.70	141.0	0.799			
226	10.74	34.73	0.31	2.27	26.63	146.9	300	9.92	34.73	26.77	134.6	0.868			
251	10.44	34.75	0.34	2.54	26.70	140.8	400	9.14	34.69	26.87	126.7	1.000			
277	10.15	34.73	0.38	3.46	26.73	137.9	500	8.21	34.63	26.97	118.3	1.124			
302	9.90	34.73	0.42	2.50	26.78	134.3	600	7.18	34.58	27.09	108.2	1.238			
403	9.12	34.69	0.30	2.13	26.88	126.5	700	6.37	34.54	27.16	101.2	1.344			
503	8.18	34.63	0.33	2.66	26.98	118.0	800	5.71	34.52	27.23	95.0	1.443			
605	7.13	34.58	0.53	2.52	27.09	107.8	1000	4.61	34.57	27.40	79.5	1.620			
806	5.67	34.52	0.76	2.32	27.24	94.6	1200	3.83	34.59	27.50	70.0	1.771			
1008	4.57	34.57	1.06	3.31	27.40	78.9	1500	3.04	34.62	27.60	60.3	1.969			
1210	3.80	34.59	1.41	2.92	27.50	69.6									
1513	3.02	34.62	1.81	2.77	27.60	60.1									

CROMWELL		17, STATION		8, 11-31N LAT, 153-58W LONG, JUNE 15, 1965, 1100 G.C.T.											
DRY BULB 24.6		WET BULB 22.1		WIND SPEED 24, DIR. 06		BAR. 14		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 6			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	26.16	34.67	4.90		22.76	510.7	0	26.16	34.67	22.76	510.7	0.000			
9	26.31	34.67	4.93	0.25	22.71	515.6	10	26.32	34.67	22.71	515.8	0.052			
30Δ	26.31	34.65			22.69	517.9	20	26.34	34.66	22.69	517.5	0.104			
45	26.31	34.63	4.84	0.29	22.68	519.9	30	26.31	34.65	22.69	517.9	0.156			
69	26.36	34.67	4.83	0.34	22.69	519.5	50	26.33	34.64	22.68	519.7	0.260			
75Δ	26.34	34.65			22.68	520.6	75	26.34	34.65	22.68	520.6	0.391			
90	18.70	34.49	4.07	0.72	24.73	325.7	100	16.03	34.45	25.33	268.0	0.491			
113	14.19	34.42	2.86	2.12	25.72	231.5	150	11.69	34.35	26.16	189.7	0.606			
136	12.49	34.36	2.53	1.80	26.02	203.4	200	10.26	34.52	26.55	153.7	0.693			
159	11.26	34.36	1.93	1.68	26.25	181.6	250	9.99	34.64	26.69	141.3	0.767			
181	10.39	34.42	1.57	2.10	26.45	162.7	300	9.51	34.67	26.80	132.2	0.836			
204	10.27	34.54	0.88	1.79	26.57	152.3	400	8.28	34.61	26.94	119.3	0.963			
227	10.24	34.65	0.40	2.17	26.66	144.2	500	7.30	34.57	27.06	109.5	1.078			
250	9.99	34.64	0.35	2.24	26.69	141.3	600	6.49	34.55	27.15	101.0	1.184			
273	9.82	34.67	0.34	2.49	26.74	136.7	700	5.85	34.55	27.24	93.7	1.283			
363	8.70	34.63	0.40	2.58	26.90	123.5	800	5.34	34.56	27.30	87.6	1.374			
456	7.70	34.58	0.50	2.79	27.01	113.7	1000	4.52	34.58	27.42	77.5	1.542			
731	5.68	34.55	0.95	2.85	27.26	91.6	1200	3.86	34.60	27.50	69.5	1.690			
917	4.86	34.57	1.06	3.12	27.37	81.6									
1105	4.13	34.59	1.30	2.51	27.47	72.8									
1397	3.38	34.62	1.64	3.01	27.57	63.7									

TEMPERATURE ERROR TERM AT 100. METERS IS 0.24

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL		17, STATION		9, 12-56N LAT, 154- 1W LONG, JUNE 15, 1965, 2100 G.C.T.		CROMWELL		17, STATION		9, 12-56N LAT, 154- 1W LONG, JUNE 15, 1965, 2100 G.C.T.		CROMWELL		17, STATION	
DRY BULB 25.2		WET BULB 21.0		WIND SPEED 21, DIR. 05		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	25.93	34.77	4.93		22.90	496.7	0	25.93	34.77	22.90	496.7	0.000			
9	25.92	34.78	4.93	0.26	22.91	496.0	10	25.91	34.78	22.92	495.6	0.050			
30 ^Δ	25.91	34.78			22.92	496.6	20	25.84	34.78	22.94	493.8	0.100			
47	26.81	34.78	4.84	0.31	22.63	524.3	30	25.91	34.78	22.92	496.6	0.150			
72	25.48	34.64	4.89	0.31	22.94	495.6	50	26.71	34.76	22.65	522.4	0.252			
95	25.19	34.64	4.90	0.27	23.03	488.0	75	25.44	34.63	22.95	495.1	0.380			
100 ^Δ	25.00	34.65			23.10	482.0	100	25.00	34.65	23.10	482.0	0.504			
118	21.52	34.85	4.97	0.34	24.26	371.8	150	15.17	34.48	25.56	248.2	0.688			
143	16.46	34.55	3.55	1.09	25.31	271.2	200	10.89	34.46	26.40	168.5	0.793			
166	12.72	34.38	2.31	1.81	25.99	207.0	250	10.64	34.68	26.61	149.6	0.873			
190	11.02	34.40	1.78	2.23	26.32	175.2	300	10.15	34.68	26.69	142.4	0.946			
215	10.94	34.57	0.69	2.21	26.47	161.8	400	9.05	34.63	26.84	130.0	1.084			
238	10.75	34.66	0.36	2.57	26.58	152.4	500	7.72	34.56	26.99	116.3	1.208			
262	10.52	34.68	0.26	2.71	26.63	147.5	600	6.87	34.52	27.08	108.0	1.321			
285	10.29	34.68	0.25	2.46	26.67	144.1	700	6.00	34.52	27.19	98.0	1.426			
381	9.33	34.64	0.25	2.46	26.80	133.1	800	5.32	34.53	27.28	89.4	1.520			
477	7.94	34.57	0.34	3.10	26.97	118.3	1000	4.54	34.56	27.40	79.0	1.691			
572	7.13	34.53	0.47	2.72	27.05	110.9	1200	3.85	34.58	27.49	71.3	1.843			
763	5.51	34.52	0.50	2.67	27.26	92.0									
955	4.71	34.56	0.94	3.18	27.38	80.8									
1147	4.02	34.56	1.23	3.13	27.46	74.0									
1438	3.21	34.59	1.59	3.13	27.56	64.1									

CROMWELL		17, STATION		10, 14-30N LAT, 154- 1W LONG, JUNE 16, 1965, 1000 G.C.T.		CROMWELL		17, STATION		10, 14-30N LAT, 154- 1W LONG, JUNE 16, 1965, 1000 G.C.T.		CROMWELL		17, STATION	
DRY BULB 25.0		WET BULB 22.0		WIND SPEED 25, DIR. 06		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	25.60	34.56	4.88		22.85	502.0	0	25.60	34.56	22.85	502.0	0.000			
9	25.70	34.56	5.04	0.26	22.82	505.3	10	25.70	34.56	22.82	505.5	0.051			
20 ^Δ	25.71	34.56			22.81	506.1	20	25.71	34.56	22.81	506.1	0.102			
50	25.73	34.56	4.88	0.25	22.81	507.9	30	25.72	34.56	22.81	506.7	0.153			
75	25.73	34.56	4.87	0.23	22.81	508.8	50	25.73	34.56	22.81	507.9	0.255			
99	25.29	34.57	4.87	0.29	22.95	496.1	75	25.73	34.56	22.81	508.8	0.383			
124	20.60	34.62	4.75	0.50	24.33	364.7	100	25.14	34.57	23.00	491.5	0.509			
151	16.25	34.91	3.62	1.62	25.33	269.7	150	16.39	34.52	25.31	272.3	0.701			
174	13.79	34.34	3.48	1.89	25.74	231.0	200	11.69	34.28	26.11	196.4	0.820			
198	11.83	34.28	2.87	1.72	26.08	198.6	250	9.97	34.40	26.51	158.3	0.909			
224	10.45	34.29	2.39	2.05	26.34	174.2	300	9.56	34.50	26.66	145.5	0.986			
249	9.98	34.40	1.51	2.31	26.51	158.8	400	8.66	34.59	26.87	126.5	1.123			
274	9.70	34.46	0.97	2.11	26.60	150.2	500	7.69	34.56	26.99	115.8	1.245			
299	9.57	34.50	0.87	2.22	26.65	145.7	600	6.89	34.55	27.10	106.4	1.357			
399	8.67	34.59	0.38	2.65	26.87	126.7	700	6.31	34.54	27.17	100.3	1.462			
499	7.70	34.56	0.56	2.95	26.99	115.9	800	5.71	34.54	27.25	93.3	1.560			
600	6.89	34.55	0.37	2.40	27.10	106.4	1000	4.48	34.56	27.41	78.3	1.733			
771	5.92	34.54	0.65	2.53	27.22	96.1	1200	3.70	34.58	27.50	69.2	1.883			
934	4.78	34.56	0.85	3.18	27.37	81.5									
1100	4.11	34.56	1.03	3.18	27.45	74.7									
1351	3.37	34.60	1.37	3.06	27.55	64.7									

CROMWELL		17, STATION		11, 15-59N LAT, 154- 1W LONG, JUNE 16, 1965, 1800 G.C.T.		CROMWELL		17, STATION		11, 15-59N LAT, 154- 1W LONG, JUNE 16, 1965, 1800 G.C.T.		CROMWELL		17, STATION	
DRY BULB 24.5		WET BULB 21.5		WIND SPEED 18, DIR. 05		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	25.03	34.48	4.94		22.96	491.1	0	25.03	34.48	22.96	491.1	0.000			
10	25.29	34.48	5.20	0.27	22.88	499.1	10	25.29	34.48	22.88	499.1	0.050			
30 ^Δ	25.30	34.48			22.88	500.2	20	25.34	34.48	22.87	500.9	0.100			
48	25.31	34.49	4.89	0.26	22.88	500.5	30	25.30	34.48	22.88	500.2	0.151			
50 ^Δ	25.31	34.48			22.88	501.3	50	25.31	34.48	22.88	501.3	0.252			
74	25.31	34.48	4.89	0.26	22.88	502.2	75	25.27	34.49	22.89	500.8	0.378			
97	23.87	34.64	5.16	0.28	23.43	450.2	100	23.53	34.67	23.55	438.9	0.496			
121	21.19	34.84	5.14	0.28	24.34	363.9	150	19.59	34.95	24.85	316.3	0.686			
147	19.77	34.95	4.76	0.32	24.80	320.6	200	15.39	34.50	25.52	252.9	0.830			
170	18.18	34.85	4.43	0.49	25.13	289.8	250	11.87	34.24	26.05	203.3	0.945			
195	15.90	34.56	4.28	0.75	25.45	259.7	300	10.12	34.29	26.40	169.9	1.039			
218	13.70	34.34	3.86	0.88	25.76	230.4	400	8.46	34.43	26.77	135.4	1.193			
242	12.27	34.25	3.67	1.81	25.97	210.0	500	7.32	34.45	26.96	118.2	1.321			
267	11.14	34.25	2.74	1.87	26.19	190.1	600	6.56	34.46	27.08	108.3	1.435			
291	10.34	34.28	2.52	1.80	26.35	174.5	700	5.87	34.48	27.18	99.0	1.540			
387	8.65	34.42	0.84	2.25	26.74	138.6	800	5.29	34.49	27.26	91.6	1.637			
484	7.46	34.45	0.55	2.83	26.94	120.2	1000	4.48	34.52	27.37	81.5	1.812			
582	6.70	34.46	0.49	3.29	27.06	110.1	1200	3.80	34.55	27.47	72.2	1.967			
777	5.40	34.49	0.76	2.70	27.25	92.9									
971	4.58	34.51	0.76	2.70	27.36	83.0									
1167	3.93	34.56	1.08	2.83	27.47	73.1									
1463	3.09	34.59	1.51	3.16	27.57	62.8									

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 17, STATION 12, 17-30N LAT, 154- 1W LONG, JUNE 17, 1965, 0400 G.C.T.													
DRY BULB 23.0		WET BULB 20.3		WIND SPEED 20, DIR. 07		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.91	34.48	5.00		23.00	487.7	0	24.91	34.48	23.00	487.7	0.000	
9	24.91	34.48	5.32	0.19	23.00	488.0	10	24.91	34.48	23.00	488.1	0.049	
30 ^Δ	24.90	34.48			23.00	488.6	20	24.91	34.48	23.00	488.4	0.098	
50	24.82	34.47	5.00	0.21	23.02	487.7	30	24.90	34.48	23.00	488.6	0.148	
75	23.93	34.58	5.23	0.18	23.37	455.4	50	24.82	34.47	23.02	487.7	0.246	
99	23.14	34.90	5.22	0.30	23.84	411.2	75	23.93	34.58	23.37	455.4	0.365	
124	22.26	35.03	5.08	0.18	24.19	378.7	100	23.11	34.91	23.85	409.8	0.474	
150	21.16	35.16	4.84	0.26	24.59	341.1	150	21.16	35.16	24.59	341.1	0.663	
174	19.82	35.09	4.70	0.31	24.90	312.7	200	18.18	34.89	25.16	288.2	0.821	
199	18.28	34.9C	4.50	0.48	25.14	289.6	250	13.68	34.38	25.79	228.1	0.952	
223	15.82	34.58	4.44	0.61	25.48	257.3	300	11.10	34.27	26.21	188.8	1.057	
248	13.82	34.39	3.86	1.06	25.77	230.0	400	7.95	34.20	26.68	144.3	1.225	
273	12.23	34.27	3.46	2.27	26.00	208.6	500	6.40	34.28	26.96	117.8	1.357	
297	11.22	34.27	3.07	1.78	26.19	190.7	600	5.84	34.38	27.10	105.0	1.470	
395	8.06	34.20	2.30	2.38	26.66	146.0	700	5.23	34.43	27.22	94.4	1.570	
495	6.44	34.28	1.18	2.95	26.95	118.6	800	4.72	34.46	27.30	86.4	1.662	
592	5.89	34.37	0.82	3.00	27.09	105.9	1000	4.16	34.52	27.41	77.1	1.827	
790	4.75	34.46	0.88	2.68	27.30	87.0	1200	3.54	34.56	27.51	68.3	1.974	
987	4.20	34.52	1.17	3.18	27.41	77.7							
1184	3.53	34.56	1.33	3.11	27.51	68.3							
1483	2.81	34.60	1.67	3.26	27.60	58.8							

CROMWELL 17, STATION 13, 19- 4N LAT, 154- 3W LONG, JUNE 17, 1965, 1300 G.C.T.														
DRY BULB 23.5		WET BULB 20.5		WIND SPEED 14, DIR. 07		BAR. 19		WEATHER 02		VIS. 7		CLOUD TYPE 5, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.38	34.55	5.04		23.21	467.4	0	24.38	34.55	23.21	467.4	0.000		
11	24.39	34.55	5.25	0.26	23.21	468.1	10	24.39	34.55	23.21	468.1	0.047		
30 ^Δ	24.38	34.55			23.21	468.6	20	24.39	34.55	23.20	468.6	0.094		
49	24.26	34.56	5.06	0.25	23.25	465.2	30	24.38	34.55	23.21	468.6	0.141		
73	23.12	34.6C	5.20	0.25	23.62	431.3	50	24.21	34.56	23.27	463.8	0.235		
75 ^Δ	23.08	34.61			23.64	429.5	75	23.08	34.61	23.64	429.5	0.348		
96	22.96	34.85	5.16	0.18	23.85	409.7	100	22.88	34.88	23.90	405.3	0.453		
120	22.27	35.02	5.11	0.27	24.18	379.6	150	20.85	35.16	24.68	333.0	0.639		
145	21.11	35.18	4.98	0.21	24.62	338.2	200	18.22	34.89	25.15	288.8	0.796		
169	19.85	35.04	4.78	0.33	24.85	316.9	250	13.96	34.34	25.70	236.8	0.928		
193	18.69	34.95	4.58	0.43	25.08	295.6	300	11.01	34.16	26.14	195.0	1.037		
216	16.96	34.72	4.43	0.54	25.33	272.4	400	8.13	34.13	26.59	152.2	1.212		
240	14.70	34.42	4.06	1.11	25.61	245.6	500	6.33	34.21	26.91	122.4	1.351		
265	12.98	34.25	4.24	1.02	25.84	224.1	600	5.75	34.35	27.09	105.4	1.466		
288	11.54	34.18	4.28	1.23	26.06	202.8	700	5.22	34.42	27.22	94.5	1.567		
384	8.55	34.13	2.92	2.02	26.53	158.4	800	4.80	34.46	27.29	87.6	1.659		
480	6.52	34.18	1.38	2.73	26.86	126.9	1000	4.17	34.52	27.41	77.4	1.826		
576	5.89	34.33	0.74	3.01	27.06	108.7	1200	3.58	34.56	27.50	68.9	1.974		
769	4.91	34.45	0.71	3.18	27.27	89.5								
962	4.29	34.51	0.96	3.05	27.35	79.3								
1156	3.69	34.56	1.11	3.16	27.49	70.0								
1450	2.97	34.58	1.47	3.09	27.57	62.0								

CROMWELL 17, STATION 14, 20-29N LAT, 154- 2W LONG, JUNE 17, 1965, 2100 G.C.T.														
DRY BULB 24.8		WET BULB 20.8		WIND SPEED 15, DIR. 05		BAR. 20		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.92	34.44	5.02		22.96	490.8	0	24.92	34.44	22.96	490.8	0.000		
10	24.99	34.44	5.28	0.24	22.94	493.3	10	24.99	34.44	22.94	493.3	0.050		
30 ^Δ	24.98	34.44			22.95	493.8	20	25.00	34.44	22.94	493.8	0.099		
50	24.96	34.43	5.02	0.24	22.94	494.7	30	24.98	34.44	22.95	493.8	0.149		
76	24.13	34.78	5.24	0.13	23.46	446.7	50	24.96	34.43	22.94	494.7	0.249		
100	22.44	35.02	5.25	0.13	24.13	383.4	75	24.18	34.76	23.43	449.2	0.367		
126	21.37	35.16	5.05	0.37	24.53	345.7	100	22.44	35.02	24.13	383.4	0.472		
151	21.09	35.21	4.93	0.22	24.65	335.7	150	21.10	35.21	24.65	335.9	0.654		
176	20.19	35.14	4.58	0.26	24.84	318.5	200	19.30	35.04	24.99	304.1	0.815		
202	19.21	35.03	4.61	0.40	25.01	302.8	250	14.97	34.49	25.61	246.3	0.954		
227	17.52	34.80	4.55	0.46	25.25	279.8	300	10.99	34.13	26.12	197.2	1.066		
251	14.86	34.43	4.56	0.60	25.62	244.9	400	8.50	34.17	26.57	154.7	1.243		
277	12.90	34.29	4.36	1.00	25.88	219.9	500	6.92	34.22	26.84	129.8	1.387		
301	10.91	34.12	4.40	1.19	26.13	196.3	600	5.89	34.30	27.03	111.5	1.509		
402	8.50	34.18	2.66	2.10	26.58	154.3	700	5.33	34.38	27.17	99.0	1.615		
503	6.88	34.22	1.38	2.66	26.84	129.2	800	4.97	34.46	27.27	90.2	1.711		
604	5.86	34.30	0.79	3.00	27.04	110.9	1000	4.28	34.53	27.40	78.3	1.881		
806	4.96	34.46	0.87	3.05	27.27	89.8	1200	3.71	34.55	27.48	71.4	2.033		
1008	4.26	34.53	1.10	3.07	27.41	77.9	1500	2.98	34.60	27.59	61.1	2.234		
1208	3.69	34.55	1.24	3.07	27.48	71.2								
1512	2.96	34.60	1.56	3.76	27.59	60.8								

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 17, STATION 15, 22- ON LAT, 153-58W LONG, JUNE 18, 1965, 0700 G.C.T.												
DRY BULB 24.0		WET BULB 20.2		WIND SPEED 17, DIR. 09		BAR. 20		WEATHER 02		VIS. 7 CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.96	34.71	5.02		23.16	472.5	0	24.96	34.71	23.16	472.5	0.000
10	25.01	34.73	5.08	0.34	23.16	472.9	10	25.01	34.73	23.16	472.9	0.048
30 ^Δ	24.80	34.73			23.22	467.7	20	25.02	34.72	23.15	474.0	0.095
50	23.20*	34.88	5.21	0.18	23.81	412.4	30	24.80	34.73	23.22	467.7	0.143
62	22.12	35.11	5.27	0.18	24.29	366.9	50	23.20	34.88	23.81	412.4	0.231
87	21.29	35.18	5.09	0.16	24.57	340.7	75	21.56	35.19	24.50	347.1	0.327
111	20.57	35.17	4.92	0.22	24.76	323.7	100	20.92	35.19	24.68	331.1	0.412
137	19.41	35.04	4.59	0.60	24.97	304.8	150	18.91	35.00	25.06	295.7	0.570
161	18.46	34.96	4.79	0.50	25.15	288.3	200	16.12	34.62	25.45	260.5	0.711
186	17.14	34.76	4.73	0.41	25.32	272.6	250	13.18	34.29	25.83	224.3	0.833
210	15.38	34.52	4.52	0.56	25.54	251.8	300	11.01	34.13	26.12	197.1	0.939
234	14.02	34.37	4.54	0.69	25.72	235.1	400	8.51	34.05	26.48	163.7	1.121
258	12.77	34.26	4.52	0.83	25.88	219.1	500	6.45	34.07	26.78	134.1	1.271
281	11.66	34.17	4.50	1.15	26.03	205.6	600	5.35	34.24	27.06	108.6	1.394
375	9.14	34.03	4.42	1.22	26.40	171.2	700	4.88	34.36	27.21	94.9	1.497
468	7.00*	34.03	2.93	2.11	26.68	144.4	800	4.62	34.44	27.30	86.7	1.588
558	5.67	34.18	1.15	2.89	26.97	116.7	1000	4.07	34.52	27.42	76.2	1.753
739	4.81	34.40	0.79	3.15	27.24	91.6	1200	3.58	34.57	27.51	68.2	1.900
921	4.30	34.50	0.98	2.92	27.38	79.8						
1103	3.79	34.54	1.20		27.46	72.3						
1380	3.20*	34.59	1.52	3.00	27.56	63.6						

CROMWELL 17, STATION 16, 23-29N LAT, 154- 0W LONG, JUNE 18, 1965, 1600 G.C.T.														
DRY BULB 23.7		WET BULB 21.1		WIND SPEED 12, DIR. 08		BAR. 20		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.41	34.77	4.92		23.37	452.4	0	24.41	34.77	23.37	452.4	0.000		
10	24.42	34.76	5.30	0.26	23.36	453.8	10	24.42	34.76	23.36	453.8	0.046		
20 ^A	24.42	34.77			23.36	453.5	20	24.42	34.77	23.36	453.5	0.091		
30 ^A	24.42	34.77			23.36	453.9	30	24.42	34.77	23.36	453.9	0.137		
50	22.79	35.07	5.40	0.21	24.07	387.5	50	22.79	35.07	24.07	387.5	0.222		
74	21.62	35.18	5.23	0.22	24.48	349.0	75	21.59	35.18	24.49	348.0	0.314		
98	20.99	35.21	5.20		24.68	331.2	100	20.94	35.21	24.69	329.8	0.400		
123	20.28	35.20	5.03	0.18	24.86	314.5	150	19.20	35.10	25.06	296.0	0.557		
148	19.25	35.10	4.81	0.28	25.05	296.9	200	16.65	34.70	25.39	265.9	0.699		
171	18.57	35.02	5.00		25.16	286.9	250	14.45	34.45	25.68	238.6	0.826		
196	16.93	34.74	4.68	0.51	25.35	269.6	300	11.62	34.19	26.05	204.1	0.938		
221	15.36	34.56	4.65	0.61	25.57	248.8	400	8.60	34.10	26.49	162.0	1.123		
245	14.67	34.47	4.73	0.62	25.65	241.5	500	6.72	34.09	26.76	136.5	1.273		
270	13.39	34.35	4.73	1.24	25.83	224.9	600	5.42	34.15	26.97	116.5	1.401		
293	11.95	34.21	4.33	0.79	26.00	208.2	700	4.90	34.27	27.13	101.9	1.511		
391	8.81	34.10	3.89	1.82	26.46	164.8	800	4.69	34.39	27.25	91.3	1.609		
489	6.91	34.09	2.25	2.42	26.74	139.0	1000	4.08	34.49	27.39	78.7	1.781		
586	5.52	34.13	1.26	2.81	26.95	118.8	1200	3.56	34.56	27.50	69.2	1.931		
782	4.75	34.38	0.76	3.11	27.23	92.8								
979	4.14	34.48	1.42	2.96	27.38	79.9								
1173	3.64	34.55	1.21	3.12	27.49	70.3								
1469	2.98	34.59	1.48	2.94	27.58	61.5								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

CROMWELL 17, STATION 17, 23-29N LAT, 151- 0W LONG, JUNE 19, 1965, 1000 G.C.T.														
DRY BULB 23.0		WET BULB 20.0		WIND SPEED 22, DIR. 09		BAR. 22		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.23	34.73			23.39	450.2	0	24.23	34.73	23.39	450.2	0.000		
9	24.25	34.74			23.39	450.4	10	24.23	34.74	23.40	449.6	0.045		
49	22.82	34.96			23.98	396.2	20	23.98	34.78	23.50	440.0	0.090		
73	21.94	35.11			24.34	362.5	30	23.66	34.84	23.64	427.6	0.134		
97	21.35	35.19			24.56	342.0	50	22.78	34.97	23.99	394.6	0.217		
123	20.84	35.21			24.72	328.2	75	21.88	35.12	24.36	360.4	0.312		
148	20.10	35.17			24.88	313.0	100	21.29	35.20	24.58	340.2	0.400		
171	19.30	35.10			25.04	298.9	150	20.04	35.17	24.90	311.9	0.564		
195	18.09	34.94			25.22	282.0	200	17.82	34.89	25.25	279.2	0.713		
220	16.56	34.69			25.40	265.6	250	14.17	34.42	25.72	234.9	0.843		
244	14.53	34.45			25.67	240.0	300	12.04	34.26	26.02	206.7	0.954		
268	13.29	34.36			25.86	222.2	400	8.62	34.06	26.46	165.1	1.142		
292	12.36	34.28			25.98	210.7	500	6.55	34.04	26.74	138.1	1.295		
389	8.92	34.07			26.42	168.7	600	5.46	34.14	26.96	117.6	1.424		
488	6.73	34.03			26.71	141.0	700	4.85	34.25	27.12	102.6	1.535		
584	5.59	34.12			26.93	120.4	800	4.52	34.36	27.24	91.7	1.634		
779	4.58	34.34			27.22	93.7	1000	4.05	34.49	27.40	78.3	1.806		
973	4.13	34.48			27.38	79.7	1200	3.55	34.55	27.50	69.1	1.955		
1168	3.58	34.53			27.48	71.0								
1461	2.96	34.58			27.58	62.0								

TEMPERATURE ERROR TERM AT 30. METERS IS 0.10

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL 17, STATION 18, 22-14 LAT, 150-56W LONG, JUNE 19, 1965, 1900 G.C.T.													
DRY BULB 23.0		WET BULB 20.8		WIND SPEED 22, DIR. 07		BAR. 20		WEATHER 15		VIS. 7		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.14	34.69			23.39	450.5	0	24.14	34.69	23.39	450.5	0.000	
10	24.15	34.69			23.38	451.2	10	24.15	34.69	23.38	451.2	0.045	
20Δ	24.14	34.69			23.39	451.3	20	24.14	34.69	23.39	451.3	0.091	
49	22.79	34.92			23.95	398.2	30	23.79	34.74	23.53	437.8	0.136	
73	21.65	35.18			24.47	349.7	50	22.74	34.93	23.98	396.0	0.220	
97	20.96	35.24			24.71	328.2	75	21.58	35.19	24.50	347.2	0.313	
121	20.46	35.21			24.82	318.3	100	20.90	35.24	24.72	326.8	0.398	
146	19.53	35.13			25.00	301.6	150	19.37	35.11	25.03	299.2	0.556	
169	18.52	34.99			25.15	287.8	200	16.59	34.71	25.41	264.3	0.698	
194	17.06	34.78			25.35	269.6	250	12.82	34.26	25.88	219.6	0.820	
218	15.12	34.50			25.58	248.0	300	10.67	34.15	26.19	190.1	0.923	
242	13.40	34.32			25.80	226.6	400	7.99	34.11	26.60	151.9	1.096	
266	11.81	34.18			26.01	207.2	500	6.14	34.19	26.92	121.1	1.233	
289	11.07	34.16			26.14	195.0	600	5.45	34.27	27.07	107.5	1.349	
386	8.34	34.10			26.54	157.5	700	4.92	34.38	27.21	94.2	1.451	
483	6.32	34.18			26.89	124.2	800	4.54	34.46	27.32	84.2	1.541	
579	5.58	34.25			27.03	110.6	1000	3.94	34.51	27.43	75.3	1.702	
773	4.63	34.45			27.30	86.1	1200	3.40	34.54	27.50	68.3	1.848	
968	4.04	34.51			27.41	76.3							
1163	3.48	34.52			27.48	70.5							
1460	2.83	34.58			27.59	60.4							

CROMWELL 17, STATION 19, 20-30N LAT, 151-3W LONG, JUNE 20, 1965, 1700 G.C.T.												
DRY BULB 23.2	WET BULB 20.6	WIND SPEED 24, DIR. 08	BAR. 19	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 6						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.52	34.57			23.48	441.8	0	23.52	34.57	23.48	441.8	0.000
10	23.65	34.57			23.44	445.8	10	23.65	34.57	23.44	445.8	0.045
30Δ	23.65	34.57			23.44	446.5	20	23.67	34.57	23.43	446.8	0.090
50Δ	23.65	34.58			23.45	446.6	30	23.65	34.57	23.44	446.5	0.135
52	23.65	34.58			23.45	446.6	50	23.65	34.58	23.45	446.6	0.225
78	22.38	34.87			24.03	391.8	75	22.57	34.83	23.95	400.0	0.331
102	21.80	35.01			24.30	367.0	100	21.84	35.00	24.28	368.6	0.428
127	21.21	35.13			24.55	343.7	150	20.27	35.13	24.81	320.1	0.602
154	20.07	35.12			24.85	316.1	200	17.13	34.71	25.28	276.1	0.752
178	18.70	34.95			25.08	295.3	250	13.59	34.29	25.75	232.4	0.880
204	16.83	34.67			25.32	272.7	300	10.72	34.18	26.20	188.9	0.986
229	15.05	34.45			25.56	250.4	400	8.73	34.31	26.64	148.2	1.156
254	13.31	34.27			25.78	228.8	500	6.96	34.28	26.83	125.4	1.294
281	11.45	34.13			26.08	201.0	600	6.16	34.34	27.03	111.8	1.414
305	10.56	34.19			26.23	186.3	700	5.58	34.40	27.15	101.0	1.522
407	8.64	34.32			26.66	146.2	800	5.07	34.44	27.25	92.2	1.619
509	6.82	34.20			26.90	124.0	1000	4.36	34.51	27.38	80.8	1.794
611	6.11	34.35			27.05	110.6	1200	3.78	34.55	27.47	72.4	1.950
813	5.01	34.45			27.26	91.3	1500	3.09	34.57	27.56	64.5	2.158
1016	4.31	34.51			27.39	80.1						
1218	3.73	34.55			27.48	71.8						
1521	3.05	34.57			27.56	64.2						

CROMWELL 17, STATION 20, 19-0N LAT, 151-5W LONG, JUNE 21, 1965, 0200 G.C.T.												
DRY BULB 23.9	WET BULB 20.4	WIND SPEED 18, DIR. 08	BAR. 16	WEATHER 03	VIS. 7	CLOUD TYPE 5, COVER 6						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.04	34.54			23.30	458.5	0	24.04	34.54	23.30	458.5	0.000
10	24.03	34.54			23.31	458.6	10	24.03	34.54	23.31	458.6	0.046
50	23.13	34.60			23.61	430.7	20	23.88	34.54	23.35	455.0	0.092
76	22.39	34.79			23.97	397.8	30	23.68	34.55	23.41	449.2	0.138
100	21.78	34.95			24.26	370.8	50	23.13	34.60	23.61	430.7	0.226
126	21.20	35.16			24.58	341.3	75	22.42	34.78	23.95	399.1	0.331
151	19.95	35.16			24.92	310.1	100	21.78	34.95	24.26	370.8	0.428
176	18.74	34.98			25.09	294.1	150	20.01	35.16	24.90	311.2	0.600
200	17.24	34.75			25.28	276.1	200	17.24	34.75	25.28	276.1	0.748
226	14.80	34.44			25.60	245.8	250	12.96	34.23	25.82	225.0	0.874
251	12.89	34.22			25.83	224.2	300	10.30	34.16	26.26	183.0	0.977
276	11.18	34.13			26.09	199.8	400	8.24	34.37	26.76	136.3	1.138
301	10.27	34.16			26.27	182.4	500	6.78	34.37	26.97	116.7	1.266
400	8.24	34.37			26.76	136.3	600	5.91	34.43	27.13	102.0	1.376
501	6.77	34.37			26.98	116.6	700	5.41	34.47	27.23	93.9	1.475
602	5.90	34.43			27.14	101.7	800	5.07	34.49	27.28	88.9	1.567
802	5.06	34.49			27.29	88.8	1000	4.31	34.53	27.40	78.5	1.737
1003	4.30	34.53			27.40	78.4	1200	3.62	34.56	27.50	69.6	1.887
1203	3.61	34.56			27.50	69.4	1500	2.89	34.61	27.60	59.3	2.083
1506	2.88	34.61			27.61	59.1						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL 17, STATION 21, 17-29N LAT, 151- CW LONG, JUNE 21, 1965, 1200 G.C.T.													
DRY BULB 23.9		WET BULB 21.0		WIND SPEED 18, DIR. 07		BAR. 17		WEATHER 03		VIS. 6		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.39	34.52			23.18	469.9	0	24.39	34.52	23.18	469.9	0.000	
10	24.39	34.53			23.19	469.5	10	24.39	34.53	23.19	469.5	0.047	
50	23.83	34.55			23.37	453.8	20	24.36	34.51	23.18	470.8	0.095	
76	22.71	34.92			23.98	397.1	30	24.25	34.50	23.21	468.6	0.142	
100	21.84	35.13			24.38	359.4	50	23.83	34.55	23.37	453.8	0.235	
126	20.35	35.01			24.70	330.2	75	22.76	34.90	23.95	399.4	0.342	
151	19.23	34.97			24.96	305.9	100	21.84	35.13	24.38	359.4	0.438	
175	17.67	34.77			25.20	283.8	150	19.28	34.97	24.95	306.8	0.606	
201	14.48	34.37			25.62	243.6	200	14.61	34.38	25.60	245.1	0.745	
225	12.33	34.22			25.94	212.9	250	11.08	34.15	26.12	195.8	0.856	
251	11.04	34.15			26.13	195.3	300	9.63	34.21	26.42	168.0	0.948	
276	10.01	34.14			26.30	179.0	400	7.94	34.33	26.78	134.7	1.101	
300	9.63	34.21			26.42	168.0	500	6.51	34.34	26.99	115.2	1.227	
400	7.94	34.33			26.78	134.7	600	6.09	34.43	27.11	104.2	1.338	
501	6.50	34.34			26.99	115.1	700	5.48	34.47	27.22	94.5	1.438	
600	6.09	34.43			27.11	104.2	800	4.88	34.49	27.31	86.5	1.529	
800	4.88	34.49			27.31	86.5	1000	4.20	34.53	27.41	77.0	1.695	
994	4.22	34.53			27.41	77.3	1200	3.55	34.56	27.51	68.5	1.842	
1186	3.59	34.56			27.50	69.1	1500	2.84	34.61	27.61	58.3	2.035	
1480	2.88	34.61			27.61	58.9	2000	2.07	34.66	27.72	48.2	2.306	
2015	2.05	34.66			27.72	48.0	2500	1.78	34.67	27.75	45.8	2.545	
2516	1.78	34.67			27.75	45.8	3000	1.64	34.70	27.78	43.5	2.773	
3017	1.64	34.70			27.78	43.4	4000	1.44	34.71	27.80	42.6	3.214	
4023	1.44	34.71			27.80	42.6							

CROMWELL 17, STATION 22, 16- ON LAT, 150-53W LONG, JUNE 21, 1965, 2200 G.C.T.												
DRY BULB 24.7	WET BULB 21.9	WIND SPEED 15, DIR. 09	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 7						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.95**	34.57			23.05	482.3	0	24.95	34.57	23.05	482.3	0.000
9	24.93	34.56			23.05	482.8	10	24.93	34.56	23.05	482.9	0.049
30 ^Δ	24.95	34.56			23.05	484.2	20	24.94	34.56	23.05	483.6	0.097
51	24.96	34.57			23.05	484.6	30	24.95	34.56	23.05	484.2	0.146
77	24.44	34.54			23.18	472.8	50	24.96	34.57	23.05	484.7	0.244
100	22.20	34.94			24.14	382.7	75	24.53	34.53	23.15	475.7	0.365
126	20.41	35.03			24.70	330.2	100	22.20	34.94	24.14	382.7	0.473
153	18.31	34.85			25.10	292.4	150	18.55	34.88	25.06	296.0	0.644
178	16.41	34.66			25.41	263.2	200	13.73	34.38	25.78	227.9	0.776
203	13.37	34.34			25.83	223.5	250	11.08	34.40	26.31	177.8	0.878
228	11.68	34.26			26.09	198.1	300	9.91	34.46	26.57	154.2	0.962
252	11.04	34.41			26.33	176.2	400	8.44	34.47	26.81	131.7	1.106
278	10.30	34.41			26.46	164.0	500	7.46	34.50	26.98	116.9	1.231
303	9.87	34.47			26.58	152.9	600	6.61	34.51	27.11	105.6	1.344
403	8.40	34.47			26.82	131.4	700	5.87	34.51	27.20	96.6	1.446
505	7.42	34.50			26.99	116.3	800	5.25	34.51	27.28	89.8	1.540
799	5.26	34.51			27.28	89.9	1000	4.40	34.53	27.39	79.7	1.712
1011	4.36	34.53			27.40	79.2	1200	3.68	34.58	27.50	69.0	1.862
1212	3.64	34.58			27.51	68.4	1500	2.89	34.60	27.60	60.0	2.059
1517	2.86	34.60			27.60	59.6						

CROMWELL 17, STATION 23, 14-30N LAT, 150-59W LONG, JUNE 22, 1965, 0700 G.C.T.												
DRY BULB 24.5	WET BULB 21.9	WIND SPEED 18, DIR. 07	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE , COVER 8						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.43	34.67			22.98	489.1	0	25.43	34.67	22.98	489.1	0.000
9	25.44	34.67			22.98	489.8	10	25.44	34.67	22.98	489.8	0.049
30 ^Δ	25.43	34.67			22.98	490.3	20	25.44	34.67	22.98	490.1	0.099
48	25.43	34.67			22.98	491.0	30	25.43	34.67	22.98	490.3	0.148
73	25.14	34.68			23.08	482.8	50	25.46	34.67	22.97	492.3	0.247
75 ^Δ	25.00	34.69			23.13	478.1	75	25.00	34.69	23.13	478.1	0.369
97	22.68	34.86			23.94	401.4	100	22.48	34.89	24.02	393.4	0.479
122	21.13	35.07			24.53	345.8	150	18.83	34.87	24.98	303.5	0.655
147	19.13	34.90			24.93	308.4	200	12.44	34.20	25.90	215.7	0.785
172	16.28	34.58			25.38	265.9	250	11.04	34.54	26.43	166.6	0.882
197	12.72	34.22			25.86	219.6	300	10.58	34.65	26.60	151.8	0.962
221	11.19	34.21			26.15	192.8	400	8.97	34.58	26.81	132.3	1.105
245	11.06	34.50			26.39	169.8	500	8.01	34.57	26.95	119.9	1.233
271	10.94	34.65			26.53	157.2	600	7.09	34.55	27.07	109.2	1.348
295	10.66	34.65			26.58	152.9	700	6.27	34.54	27.17	100.1	1.454
393	9.05	34.58			26.80	133.3	800	5.58	34.53	27.26	92.5	1.552
491	8.10	34.57			26.94	121.0	1000	4.66	34.55	27.38	81.3	1.727
787	5.65	34.53			27.25	93.4	1200	3.93	34.57	27.47	72.5	1.883
985	4.72	34.55			27.37	82.0						
1183	4.00	34.57			27.47	73.3						
1483	3.20	34.60			27.57	63.6						

ΔFROM BT DATA
 **EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 17, STATION 24, 13- 1N LAT, 151- 2W LONG, JUNE 22, 1965, 1600 G.C.T.												
DRY BULB 25.0		WET BULB 21.8		WIND SPEED 17, DIR. 08		BAR. 14		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.92	34.77			22.91	496.4	0	25.92	34.77	22.91	496.4	0.000
10	25.94	34.75			22.88	498.8	10	25.94	34.75	22.88	498.8	0.050
30 ^Δ	25.93	34.76			22.90	498.6	20	25.94	34.75	22.89	499.1	0.100
51	25.92	34.76			22.90	499.1	30	25.93	34.76	22.90	498.6	0.151
77	25.33	34.64			22.99	491.4	50	25.93	34.76	22.90	499.2	0.251
100 ^Δ	25.26	34.64			23.01	490.3	75	25.38	34.65	22.98	492.0	0.376
102	25.25	34.64			23.01	490.0	100	25.26	34.64	23.01	490.3	0.500
127	16.38	34.45			25.26	276.2	150	13.40	34.42	25.88	216.9	0.678
153	13.24	34.42			25.91	213.8	200	11.22	34.51	26.37	171.0	0.776
178	11.79	34.38			26.17	190.1	250	10.60	34.63	26.58	152.2	0.857
203	11.18	34.53			26.40	168.7	300	10.21	34.66	26.67	144.8	0.932
229	10.88	34.63			26.53	156.7	400	9.08	34.60	26.81	132.4	1.072
254	10.55	34.63			26.59	151.6	500	7.70	34.54	26.98	117.1	1.198
279	10.40	34.68			26.65	145.9	600	6.73	34.51	27.09	107.0	1.311
304	10.17	34.65			26.67	144.7	700	5.89	34.50	27.20	97.5	1.414
405	9.02	34.60			26.82	131.6	800	5.19	34.51	27.29	89.1	1.509
507	7.61	34.54			26.99	116.1	1000	4.40	34.56	27.41	77.6	1.677
607	6.67	34.51			27.10	106.4	1200	3.71	34.57	27.50	70.0	1.827
810	5.13	34.51			27.29	88.3	1500	3.04	34.60	27.58	61.8	2.027
1014	4.36	34.56			27.42	77.0						
1214	3.67	34.57			27.50	69.5						
1518	3.01	34.60			27.59	61.5						

CROMWELL 17, STATION 25, 11-28N LAT, 150-56W LONG, JUNE 23, 1965, 1600 G.C.T.												
DRY BULB 25.8		WET BULB 22.9		WIND SPEED 21, DIR. 06		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.46	34.77			22.74	512.5	0	26.46	34.77	22.74	512.5	0.000
9	26.50	34.77			22.72	514.1	10	26.50	34.77	22.72	514.3	0.052
49	26.53	34.75			22.70	518.1	20	26.52	34.75	22.71	516.4	0.104
74	26.56	34.88			22.79	510.6	30	26.53	34.74	22.70	517.7	0.156
98	20.46	34.62			24.37	360.2	50	26.59	34.76	22.69	519.4	0.260
123	18.08	34.68			25.03	298.2	75	26.33	34.87	22.85	504.4	0.389
148	13.71	34.35			25.76	228.0	100	20.23	34.63	24.44	354.0	0.497
172	12.12	34.40			26.12	194.5	150	13.51	34.35	25.80	224.5	0.643
197	11.51	34.58			26.37	170.8	200	11.37	34.59	26.41	167.9	0.742
221	10.50	34.60			26.57	152.2	250	10.30	34.62	26.62	147.8	0.821
246	10.34	34.62			26.62	148.5	300	9.82	34.64	26.72	139.6	0.894
270	10.10	34.63			26.67	144.3	400	8.93	34.61	26.84	129.5	1.030
295	9.87	34.64			26.71	140.2	500	8.09	34.58	26.95	120.5	1.156
393	8.99	34.61			26.83	130.1	600	7.15	34.55	27.06	110.2	1.272
493	8.16	34.58			26.94	121.2	700	6.30	34.54	27.17	100.4	1.379
591	7.23	34.55			27.05	111.2	800	5.60	34.54	27.26	92.1	1.476
789	5.66	34.54			27.25	92.8	1000	4.67	34.55	27.38	81.3	1.652
974	4.79	34.55			27.36	82.8	1200	3.84	34.57	27.49	71.3	1.806
1169	3.94	34.57			27.47	72.5	1500	3.09	34.61	27.58	61.9	2.009
1459	3.18	34.60			27.57	63.2	2000	2.24	34.66	27.70	50.0	2.293
1946	2.30	34.66			27.70	50.8	2500	1.88	34.68	27.75	46.2	2.538
2438	1.91	34.68			27.74	46.5	3000	1.65	34.69	27.78	43.9	2.768
2936	1.71	34.69			27.77	44.8						
3944	1.45	34.71			27.80	42.5						

CROMWELL 17, STATION 26, 9-59N LAT, 148- 1W LONG, JUNE 24, 1965, 1400 G.C.T.												
DRY BULB 25.4		WET BULB 23.6		WIND SPEED 20, DIR. 05		BAR. 13		WEATHER 00		VIS. 7		CLOUD TYPE 1, COVER 3
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.36	34.71			22.72	513.8	0	26.36	34.71	22.72	513.8	0.000
10	26.51	34.72			22.68	518.0	10	26.51	34.72	22.68	518.0	0.052
51	26.53	34.92		0.27	22.83	505.9	20	26.56	34.77	22.70	516.5	0.104
75	26.50	34.92		0.23	22.84	506.0	30	26.59	34.82	22.73	514.1	0.156
99	26.18	34.93		0.31	22.95	496.6	50	26.54	34.92	22.82	506.4	0.259
125	13.98	34.42		1.31	25.74	227.6	75	26.50	34.92	22.84	506.0	0.386
151	11.86	34.67		0.51	26.38	169.4	100	25.73	34.91	23.07	484.8	0.511
175	11.42	34.73		0.30	26.51	157.6	150	11.83	34.66	26.37	170.0	0.676
201	11.09	34.76		0.41	26.59	150.2	200	11.10	34.76	26.59	150.4	0.757
225	10.63	34.74		0.40	26.66	144.2	250	10.38	34.73	26.70	141.2	0.830
251	10.37	34.73		0.47	26.70	141.1	300	9.93	34.70	26.75	136.4	0.900
277	10.09	34.72		0.35	26.74	137.6	400	9.11	34.67	26.86	127.7	1.034
301	9.92	34.70		0.40	26.75	136.8	500	8.24	34.62	26.96	119.5	1.159
401	9.10	34.67		0.57	26.86	127.6	600	7.04	34.57	27.10	107.1	1.273
502	8.22	34.62		0.31	26.96	119.4	700	6.17	34.55	27.20	97.7	1.377
602	7.02	34.57		0.42	27.10	106.9	800	5.51	34.55	27.28	90.2	1.472
803	5.49	34.55		0.65	27.28	90.0	1000	4.49	34.57	27.41	77.8	1.642
996	4.51	34.57		1.11	27.41	78.0	1200	3.71	34.59	27.51	68.4	1.790
1189	3.76	34.59		1.34	27.51	68.9						
1483	2.96	34.62		1.72	27.61	59.2						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.14

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 17, STATION 27, 11-30N LAT, 147-59W LONG, JUNE 25, 1965, C200 G.C.T.													
DRY BULB 26.0		WET BULB 22.0		WIND SPEED 20, DIR. 04		BAR. 15		WEATHER 03--		VIS. 8		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.54	34.87	4.90		22.79	507.7	0	26.54	34.87	22.79	507.7	0.000	
10	26.55	34.87	5.26	0.47	22.78	508.4	10	26.55	34.87	22.78	508.4	0.051	
51	26.46	34.88		0.31	22.82	506.7	20	26.53	34.87	22.79	508.2	0.102	
76	26.44	34.87	4.88	0.59	22.82	507.8	30	26.51	34.88	22.80	507.8	0.154	
100	26.09	34.90	4.85	0.81	22.95	496.1	50	26.46	34.88	22.82	506.7	0.256	
125	20.22	34.77	4.83	0.44	24.55	344.2	75	26.44	34.87	22.82	507.9	0.384	
151	14.30	34.42	1.90	1.87	25.69	234.8	100	26.09	34.90	22.95	496.1	0.510	
175	12.10	34.57	0.67	2.68	26.26	181.7	150	14.49	34.43	25.66	238.0	0.695	
201	11.29	34.64	0.37	3.01	26.46	162.5	200	11.30	34.64	26.46	162.8	0.796	
225	11.03	34.69	0.24	2.24	26.55	154.8	250	10.41	34.67	26.64	146.1	0.874	
250	10.41	34.67	0.19	2.66	26.64	146.1	300	9.86	34.67	26.74	138.0	0.945	
276	10.05	34.66	0.17	2.73	26.70	141.4	400	8.87	34.63	26.87	126.9	1.079	
300	9.86	34.67	0.21	2.73	26.74	138.0	500	7.79	34.57	26.99	116.5	1.202	
399	8.88	34.63	0.38	2.68	26.87	127.0	600	6.81	34.54	27.10	106.0	1.314	
500	7.79	34.57	0.54	2.92	26.99	116.5	700	5.99	34.53	27.21	96.5	1.417	
600	6.81	34.54	0.52	3.07	27.10	106.0	800	5.32	34.54	27.29	88.5	1.510	
800	5.32	34.54	0.60	3.70	27.29	88.5	1000	4.47	34.56	27.41	78.3	1.679	
1001	4.47	34.56	1.14	3.13	27.41	78.3	1200	3.75	34.59	27.51	68.9	1.828	
1200	3.75	34.59	1.36	3.13	27.51	68.9	1500	2.93	34.62	27.61	58.9	2.023	
1501	2.93	34.62	1.90	2.92	27.61	58.9							

CROMWELL 17, STATION 28, 12-59N LAT, 147-57W LONG, JUNE 25, 1965, 1200 G.C.T.														
DRY BULB 24.0		WET BULB 20.2		WIND SPEED 25, DIR. 06		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.78	34.49	5.03		23.04	483.2	0	24.78	34.49	23.04	483.2	0.000		
8	24.81	34.49	5.31	0.26	23.04	484.4	10	24.81	34.49	23.03	484.6	0.049		
30	24.81	34.48			23.03	486.0	20	24.82	34.48	23.03	485.6	0.098		
48	24.81	34.50	5.26	0.26	23.04	485.2	30	24.81	34.48	23.03	486.0	0.147		
71	24.56	34.49	5.04	0.37	23.11	479.6	50	24.84	34.49	23.03	486.7	0.245		
94	21.74	34.79	5.12	0.31	24.15	381.0	75	24.14	34.54	23.27	464.1	0.364		
119	19.38	34.80	4.58	0.50	24.79	320.8	100	21.15	34.82	24.33	363.9	0.469		
143	16.87	34.62	4.17	0.75	25.27	275.3	150	15.75	34.54	25.47	256.6	0.625		
166	13.47	34.43	1.38	2.13	25.88	217.9	200	12.38	34.74	26.33	175.2	0.734		
190	12.65	34.71	0.11	2.27	26.26	182.2	250	11.38	34.74	26.52	157.9	0.818		
214	12.06	34.74	0.15	1.56	26.39	169.5	300	10.64	34.71	26.63	148.4	0.895		
238	11.57	34.74	0.11	1.90	26.49	161.1	400	9.25	34.63	26.81	132.7	1.037		
262	11.21	34.74	0.08	2.14	26.55	155.2	500	8.07	34.57	26.95	120.5	1.165		
285	10.86	34.72	0.08	2.23	26.60	151.0	600	7.11	34.55	27.07	109.3	1.281		
380	9.52	34.65	0.15	2.83	26.78	135.5	700	6.20	34.54	27.18	99.2	1.386		
477	8.31	34.58	0.31	2.83	26.92	123.2	800	5.46	34.53	27.27	91.0	1.482		
573	7.38	34.56	0.41	3.00	27.04	112.4	1000	4.55	34.55	27.39	79.7	1.655		
766	5.67	34.53	0.48	3.18	27.24	93.4	1200	3.84	34.58	27.49	71.0	1.808		
958	4.72	34.55	0.79	3.31	27.37	81.7								
1151	4.03	34.57	1.15	3.18	27.46	73.4								
1445	3.20	34.61	1.61	2.77	27.58	62.6								

TEMPERATURE ERROR TEMP AT 150. METERS IS 0.12

CROMWELL 17, STATION 29, 14-28N LAT, 147-57W LONG, JUNE 25, 1965, 2200 G.C.T.														
DRY BULB 23.8		WET BULB 20.0		WIND SPEED 22, DIR. 06		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 1, COVER 6		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.63	34.63	5.00		23.19	468.8	0	24.63	34.63	23.19	468.8	0.000		
9	24.69	34.63	5.33	0.46	23.18	470.9	10	24.69	34.63	23.18	471.0	0.047		
51	24.68	34.64	5.06	0.56	23.19	471.5	20	24.71	34.63	23.17	471.7	0.095		
76	24.66	34.63	5.07	0.28	23.19	472.6	30	24.72	34.64	23.17	472.0	0.142		
99	21.98	34.87	5.18	0.29	24.14	381.8	50	24.68	34.64	23.19	471.6	0.237		
124	19.38	34.88	4.74	0.41	24.85	315.2	75	24.69	34.63	23.18	473.6	0.356		
150	16.89	34.60	3.84	0.90	25.25	277.4	100	21.87	34.88	24.18	378.6	0.464		
175	13.06	34.34	1.95	1.80	25.89	216.7	150	16.89	34.60	25.25	277.4	0.629		
199	11.71	34.49	0.94	2.49	26.27	181.0	200	11.68	34.50	26.28	180.0	0.744		
224	11.28	34.64	0.32	2.81	26.46	162.9	250	11.00	34.70	26.56	154.1	0.829		
250	11.00	34.70	0.21	3.15	26.56	154.1	300	10.25	34.68	26.68	143.8	0.904		
275	10.62	34.69	0.24	2.50	26.62	148.8	400	9.06	34.62	26.83	130.7	1.042		
299	10.26	34.68	0.26	2.20	26.68	143.9	500	7.97	34.56	26.95	119.9	1.169		
398	9.08	34.62	0.20	2.72	26.83	130.9	600	6.90	34.53	27.08	108.1	1.284		
498	7.98	34.56	0.34	2.88	26.95	120.1	700	6.11	34.51	27.18	99.6	1.389		
599	6.91	34.53	0.38	2.99	27.08	108.2	800	5.50	34.51	27.25	93.1	1.486		
799	5.51	34.51	0.51	2.68	27.25	93.2	1000	4.64	34.53	27.37	82.6	1.664		
999	4.64	34.53	0.78	2.71	27.37	82.6	1200	3.93	34.56	27.47	73.2	1.822		
1198	3.94	34.57	1.09	2.92	27.47	72.7	1500	3.18	34.60	27.57	63.4	2.030		
1500	3.18	34.60	1.54	2.88	27.57	63.4								

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 17, STATION 30, 16- ON LAT, 148- 0W LONG, JUNE 26, 1965, 0700 G.C.T.					BAR. 16 WEATHER 00 VIS. 7 CLCUC TYPE 2, COVER 8									
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.32	34.54	5.03		23.22	466.4	0	24.32	34.54	23.22	466.4	0.000		
9	24.49	34.54	5.28	0.21	23.17	471.6	10	24.49	34.54	23.17	471.8	0.047		
20 ^Δ	24.49	34.54			23.17	472.1	20	24.49	34.54	23.17	472.1	0.095		
52	24.52	34.53	5.03	0.25	23.15	474.9	30	24.50	34.54	23.16	473.0	0.142		
76	24.49	34.53	5.03	0.24	23.16	474.9	50	24.52	34.53	23.15	474.7	0.238		
101	24.32	34.52	5.06	0.25	23.20	471.8	75	24.49	34.53	23.16	475.0	0.357		
125	19.28	34.58	4.38	1.05	24.65	334.5	100	24.38	34.52	23.19	473.4	0.477		
151	15.49	34.46	3.76	1.01	25.47	256.8	150	15.60	34.47	25.45	258.7	0.661		
176	13.62	34.30	3.47	1.85	25.74	230.6	200	11.87	34.19	26.00	206.0	0.778		
200	11.87	34.19	3.47	1.47	26.00	206.0	250	9.96	34.22	26.37	171.8	0.874		
226	10.57	34.20	3.03	1.82	26.25	182.9	300	9.12	34.31	26.58	152.5	0.955		
251	9.94	34.22	2.36	2.00	26.37	171.4	400	8.18	34.43	26.82	130.9	1.098		
275	9.61	34.30	1.98	2.39	26.49	160.6	500	7.25	34.45	26.97	117.4	1.224		
300	9.12	34.31	1.74	2.45	26.58	152.5	600	6.35	34.45	27.09	106.2	1.337		
400	8.18	34.43	0.71	2.78	26.82	130.9	700	5.65	34.47	27.20	97.0	1.439		
502	7.23	34.45	0.61		26.97	117.2	800	5.11	34.49	27.28	89.5	1.534		
602	6.33	34.45	0.54		27.10	106.0	1000	4.36	34.53	27.40	79.1	1.704		
803	5.10	34.49	0.76		27.28	89.3	1200	3.73	34.56	27.49	70.9	1.856		
1003	4.35	34.53	0.97	3.20	27.40	79.0	1500	2.98	34.60	27.59	61.1	2.057		
1204	3.72	34.56	1.13	3.16	27.49	70.8								
1506	2.97	34.60	1.60	3.16	27.59	60.9								

CROMWELL 17, STATION 31, 17-30N LAT, 148- 4W LONG, JUNE 26, 1965, 1600 G.C.T.					BAR. 16 WEATHER VIS. 7 CLCUC TYPE 9, COVER 5									
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.53	34.54	5.06		23.19	468.8	0	24.53	34.59	23.19	468.8	0.000		
9	24.52	34.59	5.19	0.26	23.20	468.9	10	24.52	34.59	23.20	468.9	0.047		
49	24.53	34.59	5.04	0.24	23.19	470.7	20	24.52	34.59	23.20	469.3	0.094		
75	24.54	34.60	4.99	0.49	23.20	471.3	30	24.52	34.59	23.20	469.8	0.142		
99	23.32	34.84	5.25	0.21	23.74	420.5	50	24.54	34.59	23.17	471.3	0.237		
123	22.21	34.94	5.20	0.34	24.13	383.8	75	24.54	34.60	23.20	471.3	0.355		
150	21.27	35.07	5.03	0.22	24.49	350.5	100	23.27	34.85	23.76	418.8	0.467		
174	19.86	35.01	4.69	0.67	24.83	319.5	150	21.27	35.07	24.49	350.5	0.661		
198	17.98	34.79	4.70	0.54	25.14	290.4	200	17.77	34.76	25.17	287.4	0.822		
222	15.34	34.47	4.01	0.83	25.51	254.9	250	12.69	34.24	25.88	218.9	0.950		
247	12.89	34.25	3.52	1.32	25.85	221.9	300	9.90	34.18	26.35	174.4	1.049		
273	11.37	34.20	3.36	1.88	26.11	198.0	400	7.66	34.18	26.70	141.0	1.209		
297	10.02	34.18	3.02	1.80	26.33	176.6	500	7.01	34.33	26.91	122.5	1.342		
395	7.71	34.17	2.04	2.16	26.65	143.1	600	6.23	34.41	27.08	107.4	1.458		
496	7.04	34.33	0.83	2.89	26.91	123.2	700	5.53	34.46	27.21	95.8	1.561		
595	6.27	34.41	0.47	3.22	27.07	108.1	800	4.95	34.49	27.30	87.3	1.654		
794	4.98	34.49	0.82	3.22	27.30	87.7	1000	4.22	34.52	27.40	78.0	1.821		
994	4.24	34.52	1.03	3.04	27.40	78.3	1200	3.59	34.56	27.50	69.5	1.970		
1194	3.61	34.56	1.24	3.22	27.50	69.4								
1497	2.86	34.60	1.65	2.93	27.60	59.5								

CROMWELL 17, STATION 32, 19- 24N LAT, 147-59W LONG, JUNE 27, 1965, 0100 G.C.T.					BAR. 17 WEATHER 15 VIS. 7 CLCUC TYPE 6, COVER 6									
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.61	34.53	5.07		23.13	475.4	0	24.61	34.53	23.13	475.4	0.000		
9	24.63	34.52	5.26	0.23	23.11	477.1	10	24.63	34.52	23.11	477.2	0.048		
30 ^Δ	24.62	34.52			23.11	477.6	20	24.63	34.52	23.11	477.7	0.096		
51	24.58	34.52	5.31	0.24	23.13	477.3	30	24.62	34.52	23.11	477.6	0.144		
76	22.59	34.68	5.39	0.23	23.83	411.1	50	24.60	34.52	23.12	477.9	0.240		
101	22.08	34.96	5.26	0.18	24.19	378.1	75	22.68	34.67	23.80	414.1	0.353		
125	21.58	35.10	5.15	0.18	24.43	355.6	100	22.09	34.95	24.17	379.0	0.453		
152	20.19	35.06	4.91	0.37	24.78	323.4	150	20.30	35.07	24.75	325.7	0.630		
177	19.08	34.95	4.74	0.38	24.98	304.5	200	17.72	34.79	25.20	284.5	0.784		
203	17.49	34.76	4.62	0.49	25.23	281.2	250	12.77	34.21	25.94	222.9	0.912		
227	14.77	34.42	4.33	0.78	25.59	246.7	300	10.21	34.16	26.28	181.2	1.014		
253	12.56	34.19	3.52	1.34	25.87	220.1	400	7.62	34.21	26.73	139.2	1.175		
279	11.28	34.17	4.33	1.08	26.10	198.7	500	6.87	34.35	26.95	119.3	1.306		
303	10.06	34.16	3.30	1.84	26.31	178.9	600	6.13	34.41	27.09	106.4	1.420		
404	7.58	34.21	1.68	2.74	26.74	138.4	700	5.49	34.45	27.20	96.4	1.522		
506	6.85	34.36	0.67	3.01	26.96	118.5	800	4.95	34.48	27.29	88.4	1.616		
607	6.08	34.41	0.51	3.09	27.10	105.7	1000	4.15	34.53	27.42	76.6	1.783		
809	4.91	34.43	0.72	3.14	27.30	87.7	1200	3.52	34.56	27.51	68.4	1.930		
1011	4.11	34.53	0.96	3.18	27.42	76.1	1500	2.82	34.59	27.60	59.8	2.125		
1213	3.48	34.56	1.22	3.16	27.51	67.9								
1517	2.79	34.59	1.55	2.51	27.60	59.5								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 17, STATION 33, 20-31N LAT, 147-58W LONG, JUNE 27, 1965, 1800 G.C.T.													
DRY BULB 23.1		WET BULB 20.3		WIND SPEED 22, DIR. 10		BAR. 21		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.04	34.60	5.04		23.35	454.2	0	24.04	34.60	23.35	454.2	0.000	
9	24.03	34.60	5.15	0.37	23.35	454.2	10	24.03	34.60	23.35	454.3	0.046	
30 ^Δ	24.03	34.60			23.35	455.0	20	24.03	34.60	23.35	454.6	0.092	
47	24.03	34.60	5.01	0.23	23.35	455.7	30	24.03	34.60	23.35	455.0	0.137	
50 ^Δ	24.03	34.60			23.35	455.8	50	24.03	34.60	23.35	455.8	0.229	
72	22.62	34.70	5.30	0.21	23.84	410.3	75	22.60	34.71	23.85	409.2	0.338	
75 ^Δ	22.60	34.71			23.85	409.2	100	22.09	34.87	24.12	384.5	0.438	
96	22.22	34.85	5.27	0.36	24.06	389.6	150	20.06	34.92	24.70	330.4	0.618	
119	21.37	34.95	5.21	0.23	24.37	360.6	200	17.88	34.84	25.20	284.1	0.773	
143	20.50	34.94	5.44	0.27	24.60	339.7	250	13.60	34.26	25.72	235.2	0.904	
167	19.06	34.88	4.75	0.40	24.93	308.8	300	10.74	34.13	26.17	192.5	1.012	
191	18.52	34.95	4.75	0.34	25.12	291.4	400	7.78	34.12	26.63	148.1	1.184	
214	16.65	34.63	4.41	0.64	25.33	271.8	500	6.28	34.20	26.90	122.8	1.320	
239	14.42	34.34	4.18	0.85	25.61	245.6	600	5.52	34.31	27.09	105.7	1.436	
262	12.80	34.20	4.19	1.02	25.83	224.2	700	5.11	34.42	27.22	93.8	1.536	
285	11.43	34.15	3.95	1.36	26.06	203.0	800	4.89	34.49	27.31	86.6	1.628	
380	8.22	34.11	2.88	2.10	26.56	154.8	1000	4.19	34.52	27.41	77.6	1.794	
478	6.50	34.17	1.57	2.64	26.85	127.3	1200	3.59	34.56	27.50	69.4	1.943	
764	5.03	34.48	0.78	3.22	27.28	88.7							
957	4.33	34.51	1.10	2.56	27.36	79.8							
1149	3.73	34.56	1.26	3.13	27.49	70.5							
1441	3.01	34.58	1.47	2.50	27.57	62.4							

TEMPERATURE ERROR TERM AT 600. METERS IS 0.19
 TEMPERATURE ERROR TERM AT 700. METERS IS 0.14

CROMWELL 17, STATION 34, 22-1N LAT, 148-0W LONG, JUNE 28, 1965, 0200 G.C.T.													
DRY BULB 23.3		WET BULB 19.5		WIND SPEED 23, DIR. 09		BAR. 21		WEATHER 21		VIS. 7		CLOUD TYPE 9, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.43	34.62	5.28		23.54	435.6	0	23.43	34.62	23.54	435.6	0.000	
8	23.73	34.62	5.38	0.41	23.45	444.3	10	23.73	34.62	23.45	444.4	0.044	
20 ^Δ	23.60	34.62			23.49	441.1	20	23.60	34.62	23.49	441.1	0.089	
47	23.32	34.61	5.34	0.23	23.57	435.1	30	23.50	34.61	23.52	439.2	0.133	
71	23.07	34.68	5.34	0.22	23.69	424.1	50	23.31	34.61	23.57	434.8	0.221	
93	22.28	34.92	5.28	0.24	24.10	386.1	75	22.94	34.72	23.76	417.6	0.329	
117	21.73	35.06	5.18	0.19	24.36	362.1	100	22.10	34.97	24.19	377.9	0.429	
142	21.13	35.13	5.04	0.26	24.58	342.2	150	20.85	35.12	24.65	335.9	0.609	
165	20.29	35.09	4.90	0.31	24.77	324.2	200	18.90	34.98	25.05	298.5	0.769	
189	19.41	35.04	4.80	0.34	24.97	306.6	250	16.22	34.62	25.42	264.2	0.910	
211	18.33	34.91	4.78	0.39	25.14	290.4	300	11.91	34.15	25.97	211.9	1.030	
235	16.99	34.73	4.68	0.52	25.33	272.9	400	8.66	34.15	26.53	159.1	1.218	
259	15.64	34.54	4.64	0.59	25.49	257.4	500	7.05	34.22	26.82	131.9	1.365	
281	13.24	34.26	4.42	1.00	25.79	228.8	600	5.49	34.18	26.99	114.8	1.489	
376	9.14	34.12	3.66	1.88	26.43	168.3	700	5.03	34.31	27.15	100.7	1.598	
470	7.68	34.24	1.77	2.64	26.75	138.7	800	4.88	34.43	27.26	91.0	1.695	
565	5.79	34.15	1.24		26.93	120.6	1000	4.27	34.49	27.38	80.6	1.869	
754	5.02	34.40	0.86	3.09	27.22	94.4	1200	3.68	34.54	27.48	71.7	2.023	
944	4.46	34.48	0.65	3.18	27.35	83.5							
1134	3.82	34.52	1.08	3.13	27.44	74.4							
1423	3.10	34.57	1.42	3.04	27.55	64.1							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.20
 TEMPERATURE ERROR TERM AT 700. METERS IS 0.13

CROMWELL 17, STATION 35, 23-30N LAT, 148-0W LONG, JUNE 28, 1965, 1100 G.C.T.													
DRY BULB 22.9		WET BULB 19.5		WIND SPEED 18, DIR. 08		BAR. 24		WEATHER 02		VIS. 7		CLOUD TYPE , COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.83	34.65	5.08		23.45	444.6	0	23.83	34.65	23.45	444.6	0.000	
7	23.87	34.64	5.18	0.20	23.43	446.8	10	23.87	34.64	23.43	446.9	0.045	
20 ^Δ	23.85	34.65			23.44	446.0	20	23.85	34.65	23.44	446.0	0.090	
42	23.76	34.68	5.10	0.28	23.49	442.1	30	23.87	34.65	23.44	447.0	0.135	
64	22.83	34.96	5.25	0.26	23.97	397.0	50	23.47	34.78	23.65	427.2	0.223	
83	22.08	35.06	5.22	0.13	24.26	370.2	75	22.38	35.03	24.15	380.4	0.325	
105	21.47	35.17	5.02	0.16	24.51	346.9	100	21.59	35.15	24.46	351.4	0.417	
126	21.00	35.19	4.92	0.19	24.66	333.9	150	20.18	35.11	24.82	319.3	0.586	
148	20.27	35.12	4.74	0.26	24.80	321.0	200	17.91	34.84	25.19	285.0	0.738	
168	19.35	35.03	4.62	0.37	24.97	305.1	250	14.86	34.48	25.62	244.9	0.872	
188	18.54	34.92	4.50		25.10	294.0	300	12.14	34.21	25.97	211.7	0.987	
209	17.39	34.78	4.50	0.48	25.27	277.7	400	8.62	34.06	26.46	165.2	1.177	
230	16.15	34.64	4.70	0.48	25.46	260.4	500	6.75	34.09	26.76	136.8	1.329	
250	14.86	34.48	4.76	0.99	25.62	244.9	600	5.52	34.17	26.98	116.1	1.457	
331	10.78	34.12	4.70	0.96	26.15	194.7	700	4.85	34.27	27.14	101.4	1.567	
414	8.29	34.06	3.68	1.84	26.51	160.1	800	4.55	34.37	27.25	91.4	1.664	
496	6.81	34.09	2.10	2.49	26.75	137.7	1000	4.06	34.50	27.40	77.8	1.836	
663	5.02	34.23	0.72	3.00	27.08	106.0	1200	3.55	34.56	27.50	68.8	1.984	
832	4.51	34.40	0.70	2.77	27.28	88.9							
1007	4.04	34.50	0.97	2.93	27.41	77.4							
1284	3.36	34.56	1.30	2.72	27.52	67.0							

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 17, STATION 36, 25- IN LAT, 147-56W LONG, JUNE 28, 1965, 2100 G.C.T.												
DRY BULB 23.2		WET BULB 18.4		WIND SPEED 23, DIR. 09		BAR. 25	WEATHER 01		VIS. 7	CLOUD TYPE 4, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.78	34.66	5.22		23.47	442.5	0	23.78	34.66	23.47	442.5	0.000
9	23.80	34.66	5.40	0.22	23.46	443.4	10	23.80	34.66	23.46	443.5	0.045
30 ^Δ	23.81	34.66			23.46	444.5	20	23.81	34.66	23.46	444.1	0.089
51	23.82	34.66	5.17	0.21	23.46	445.6	30	23.81	34.66	23.46	444.5	0.134
76	22.52	34.99	5.34	0.17	24.08	386.9	50	23.83	34.66	23.45	446.1	0.224
99	21.55	35.15	5.28	0.19	24.48	350.2	75	22.58	34.97	24.05	389.6	0.329
126	20.63	35.09	4.93	0.25	24.68	331.5	100	21.51	35.15	24.49	349.3	0.422
152	19.89	35.12	4.75	0.30	24.90	311.5	150	19.96	35.12	24.88	313.1	0.589
176	18.50	34.95	4.88	0.35	25.13	290.4	200	16.97	34.69	25.30	274.2	0.737
202	16.84	34.67	4.44	0.68	25.32	272.8	250	13.79	34.37	25.76	231.3	0.864
227	15.16	34.51	4.89	0.50	25.58	248.3	300	11.94	34.23	26.03	206.5	0.975
253	13.64	34.35	4.97	0.64	25.78	229.4	400	9.39	34.10	26.37	174.1	1.167
277	12.79	34.29	5.02	0.75	25.90	217.8	500	6.96	34.00	26.66	146.5	1.329
302	11.87	34.23	5.10	0.88	26.04	205.5	600	5.50	34.06	26.89	124.2	1.465
402	9.35	34.10	4.80	1.06	26.38	173.6	700	4.74	34.17	27.07	107.5	1.582
503	6.90	34.00	3.09	2.19	26.67	145.7	800	4.35	34.29	27.21	94.5	1.685
603	5.47	34.06	1.63	2.70	26.90	123.6	1000	3.80	34.46	27.40	77.7	1.859
805	4.34	34.30	0.51	2.97	27.22	94.0	1200	3.37	34.52	27.49	69.6	2.008
1006	3.79	34.46	0.92	3.16	27.40	77.4	1500	2.82	34.57	27.58	61.2	2.207
1207	3.36	34.52	1.23	3.16	27.49	69.4						
1511	2.80	34.57	1.62	3.39	27.58	61.1						

CROMWELL 17, STATION 37, 26-26N LAT, 148- 6W LONG, JUNE 29, 1965, C400 G.C.T.														
DRY BULB 23.5		WET BULB 19.2		WIND SPEED 18, DIR. 07			BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 5, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	23.12	34.89	5.19		23.84	407.6	0	23.12	34.89	23.84	407.6	0.000		
10	23.35	34.89	5.32	0.75	23.77	414.3	10	23.35	34.89	23.77	414.3	0.041		
48	22.68	35.04	5.32	0.28	24.08	386.5	20	23.37	34.91	23.78	413.6	0.083		
72	21.41	35.18	5.40	0.15	24.54	343.3	30	23.25	34.95	23.84	408.2	0.124		
95	20.59	35.18	5.13	0.14	24.76	322.9	50	22.58	35.05	24.12	382.9	0.204		
118	19.98	35.17	5.06	0.16	24.92	308.9	75	21.29	35.18	24.58	339.9	0.295		
143	19.09	35.06	4.81	0.25	25.06	295.7	100	20.46	35.18	24.80	319.5	0.378		
167	17.96	34.90	4.83	0.37	25.22	280.9	150	18.77	35.02	25.11	291.3	0.532		
190	16.99	34.75	4.83	0.37	25.34	270.1	200	16.51	34.68	25.40	264.8	0.672		
214	15.68	34.56	4.83	0.50	25.50	255.5	250	12.79	34.22	25.85	222.7	0.795		
238	13.64	34.30	4.85	0.76	25.74	232.7	300	11.41	34.24	26.13	196.2	0.901		
262	12.15	34.17	4.86	0.90	25.94	214.1								
285	11.71	34.22	5.04	0.84	26.06	202.9								
300**	11.40**	34.24**			26.13	196.2								

CROMWELL 17, STATION 38, 24-56N LAT, 151- 5W LONG, JUNE 30, 1965, C100 G.C.T.													
DRY BULB 25.8		WET BULB 21.0		WIND SPEED 14, DIR. 07		BAR. 23		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.34	34.78			23.35	449.7	0	24.34	34.78	23.39	449.7	0.000	
10	24.36	34.78			23.39	450.7	10	24.36	34.78	23.39	450.7	0.045	
30Δ	24.35	34.78			23.39	451.1	20	24.50	34.76	23.33	456.6	0.091	
49	22.31	35.12			24.24	370.8	30	24.35	34.78	23.39	451.1	0.137	
74	20.96	35.20			24.68	330.2	50	22.23	35.13	24.27	368.2	0.219	
98	20.31	35.17			24.83	316.6	75	20.93	35.20	24.68	329.4	0.307	
121	19.60	35.14			24.99	301.7	100	20.25	35.17	24.84	315.3	0.388	
146	18.71	35.05			25.15	287.2	150	18.59	35.03	25.17	285.9	0.540	
170	17.83	34.90			25.26	278.0	200	15.80	34.61	25.51	254.1	0.676	
195	16.13	34.65			25.47	258.2	250	12.78	34.32	25.93	215.0	0.794	
218	14.63	34.48			25.67	239.1	300	11.42	34.26	26.14	195.4	0.898	
242	13.11	34.34			25.88	219.4	400	8.83	34.10	26.46	165.1	1.080	
267	12.26	34.29			26.01	207.5	500	6.89	34.03	26.69	143.5	1.235	
291	11.67	34.27			26.10	198.7	600	5.46	34.08	26.91	121.9	1.369	
386	9.14	34.12			26.43	168.4	700	4.70	34.20	27.10	104.8	1.484	
483	7.20	34.03			26.65	147.5	800	4.33	34.33	27.24	91.7	1.583	
581	5.65	34.06			26.86	125.6	1000	3.89	34.49	27.41	76.6	1.754	
773	4.42	34.30			27.21	94.6	1200	3.49	34.55	27.50	68.9	1.901	
969	3.95	34.47			27.35	78.2	1500	2.86	34.59	27.59	60.6	2.098	
1163	3.57	34.94			27.49	70.1	2000	2.13	34.64	27.70	50.2	2.379	
1457	2.94	34.58			27.58	61.7	2500	1.82	34.68	27.75	45.4	2.623	
1971	2.16	34.64			27.69	50.6	3000	1.63	34.68	27.77	44.6	2.853	
2471	1.83	34.68			27.75	45.6	4000	1.47	34.70	27.79	43.7	3.305	
2970	1.64	34.68			27.76	44.7							
3971	1.49	34.71			27.80	43.2							
4976	1.51	34.71			27.80	46.2							

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 17, STATION 39, 25- 3N LAT, 154- 1W LONG, JUNE 30, 1965, 2100 G.C.T.													
DRY BULB 24.6		WET BULB 20.5		WIND SPEED 12, DIR. 08		BAR. 24		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.23	34.99	4.94		23.59	431.4	0	24.23	34.99	23.59	431.4	0.000	
10	24.22	34.98	5.02	0.19	23.58	432.3	10	24.22	34.98	23.58	432.3	0.043	
30 ^Δ	24.20	34.99			23.60	431.7	20	24.31	34.97	23.55	435.4	0.087	
51	22.54	35.13	5.36	0.29	24.18	376.4	30	24.20	34.99	23.60	431.7	0.131	
77	21.29	35.17	5.23	0.23	24.56	341.1	50	22.63	35.12	24.15	379.3	0.213	
101	20.34	35.15	4.90	0.20	24.80	318.9	75	21.37	35.17	24.54	343.0	0.304	
127	19.70	35.11	5.02	0.49	24.94	306.6	100	20.37	35.15	24.80	319.6	0.387	
153	18.56	34.96	4.96	0.40	25.12	290.4	150	18.69	34.98	25.10	292.2	0.541	
178	17.96	34.91	4.67	0.44	25.23	280.5	200	16.71	34.72	25.39	266.3	0.682	
203	16.52	34.69	4.83	0.44	25.41	264.2	250	13.95	34.41	25.76	231.1	0.807	
228	15.16	34.52	4.77	0.89	25.59	247.6	300	12.28	34.29	26.00	208.7	0.918	
253	13.80	34.40	4.92	1.51	25.78	229.0	400	9.61	34.12	26.36	175.9	1.112	
279	12.95	34.35	5.00	1.27	25.92	216.6	500	7.36	34.02	26.62	150.5	1.277	
304	12.16	34.28	4.88	0.98	26.02	207.3	600	5.77	34.07	26.87	126.4	1.417	
405	9.49	34.12	4.71	1.50	26.37	174.5	700	4.83	34.17	27.06	108.7	1.536	
507	7.22	34.02	3.56	2.05	26.64	148.8	800	4.30	34.27	27.20	95.5	1.639	
607	5.68	34.08	1.52	2.87	26.89	124.8	1000	3.78	34.45	27.40	77.7	1.814	
807	4.28	34.28	0.54	3.28	27.21	94.8	1200	3.34	34.52	27.49	69.2	1.963	
1011	3.76	34.46	0.96	3.33	27.40	77.1	1500	2.74	34.57	27.59	60.2	2.160	
1212	3.31	34.52	1.29	3.17	27.50	68.9							
1516	2.71	34.57	1.65	3.17	27.59	60.0							

CROMWELL 17, STATION 40, 25- 1N LAT, 157- 1W LONG, JULY 1, 1965, 1400 G.C.T.												
DRY BULB 22.3	WET BULB 20.5	WIND SPEED 16, DIR. 07		BAR. 22		WEATHER 60		VIS. 7	CLOUD TYPE , COVER 4			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.84	34.83			23.28	460.4	0	24.84	34.83	23.28	460.4	0.000
10	25.06	34.84			23.22	466.5	10	25.06	34.84	23.22	466.5	0.047
51	22.95	34.92			23.91	402.7	20	24.78	34.84	23.30	459.1	0.093
76	21.49	35.18			24.52	345.6	30	24.36	34.85	23.44	446.4	0.139
100	20.90	35.16			24.66	332.5	50	23.03	34.92	23.88	405.3	0.225
126	20.09	35.12			24.85	315.6	75	21.54	35.17	24.49	347.6	0.320
151	18.85	34.98			25.06	295.9	100	20.90	35.16	24.66	332.5	0.405
176	17.72	34.82			25.22	281.4	150	18.90	34.99	25.05	296.6	0.564
201	15.20	34.50			25.56	249.2	200	15.30	34.51	25.55	250.4	0.702
226	13.99	34.39			25.74	232.8	250	12.65	34.26	25.91	216.3	0.819
251	12.60	34.26			25.92	215.7	300	11.44	34.20	26.09	199.8	0.924
276	11.99	34.23			26.01	207.1	400	8.55	34.07	26.48	163.1	1.107
301	11.42	34.20			26.10	199.5	500	6.21	34.03	26.78	134.1	1.257
401	8.52	34.07			26.49	162.7	600	5.11	34.12	26.99	114.5	1.383
503	6.15	34.03			26.79	133.4	700	4.53	34.24	27.15	99.6	1.491
803	4.45	34.39			27.28	88.6	800	4.44	34.39	27.27	88.9	1.586
1004	3.94	34.49			27.41	76.9	1000	3.95	34.49	27.41	77.1	1.754
1205	3.44	34.52			27.48	70.4	1200	3.45	34.52	27.48	70.5	1.904
1509	2.79	34.54			27.56	63.2	1500	2.81	34.54	27.56	63.3	2.107

TEMPERATURE ERROR TERM AT 20. METERS IS 0.14
 TEMPERATURE ERROR TERM AT 30. METERS IS 0.19
 TEMPERATURE ERROR TERM AT 600. METERS IS 0.25
 TEMPERATURE ERROR TERM AT 700. METERS IS 0.25

CROMWELL 17, STATION 41, 23-28N LAT, 156-58W LONG, JULY 1, 1965, 2300 G.C.T.												
DRY BULB 24.9	WET BULB 21.7	WIND SPEED 20, DIR. 08		BAR. 23		WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.20	34.56			22.97	490.3	0	25.20	34.56	22.97	490.3	0.000
9	25.15	34.56			22.98	489.2	10	25.15	34.56	22.98	489.3	0.049
46	24.56	34.74			23.30	460.7	20	25.12	34.57	23.01	487.6	0.099
69	23.13	35.08			23.98	396.8	30	24.98	34.62	23.08	481.1	0.147
92	22.14	35.19			24.34	362.8	50	24.32	34.60	23.42	449.7	0.241
114	21.65	35.19			24.48	350.5	75	22.83	35.13	24.10	385.4	0.346
137	20.95	35.20			24.68	332.3	100	21.95	35.20	24.40	357.5	0.440
159	20.37	35.19			24.83	318.8	150	20.62	35.20	24.77	324.3	0.612
182	19.42	35.10			25.01	302.3	200	18.35	34.93	25.15	289.1	0.766
204	18.09	34.89			25.18	285.9	250	14.90	34.51	25.63	243.5	0.900
226	16.59	34.71			25.41	265.0	300	12.25	34.27	26.00	209.5	1.015
247	15.10	34.53			25.61	246.2	400	8.95	34.09	26.44	167.7	1.205
269	13.69	34.37			25.80	227.9	500	6.78	34.07	26.74	139.0	1.360
356	10.35	34.16			26.26	184.9	600	5.66	34.17	26.96	117.9	1.490
444	7.80	34.06			26.59	153.3	700	5.03	34.30	27.14	101.1	1.600
532	6.35	34.09			26.81	132.0	800	4.61	34.39	27.26	90.4	1.697
712	4.98	34.32			27.16	99.4	1000	4.01	34.49	27.40	77.6	1.867
897	4.32	34.45			27.34	83.5	1200	3.48	34.55	27.51	68.3	2.015
1091	3.77	34.52			27.45	73.4						
1392	3.08	34.57			27.56	63.7						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.11

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 17, STATION 42, 22- 1N LAT, 157- 0W LONG, JULY 2, 1965, 0900 G.C.T.					BAR. 20 WEATHER 00		VIS. 7 CLOUD TYPE 8, COVER 1					
DRY BULB 24.6 WET BULB 21.5 WIND SPEED 23, DIR. 07												
DEPTH	TEMP.	SAL.	CTY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.14	34.50			22.94	492.9	0	25.14	34.50	22.94	492.9	0.000
10	25.17	34.50			22.93	494.2	10	25.17	34.50	22.93	494.2	0.050
30 ^Δ	25.14	34.50			22.94	494.1	20	25.16	34.50	22.94	494.3	0.099
52	25.11	34.50			22.95	494.1	30	25.14	34.50	22.94	494.1	0.149
78	23.72	34.85			23.63	430.1	50	25.13	34.49	22.94	495.1	0.249
102	22.90	34.98			23.97	398.9	75	23.90	34.81	23.54	438.4	0.366
127	21.62	35.09			24.41	357.4	100	22.97	34.97	23.94	401.2	0.472
154	20.76	35.14			24.68	332.3	150	20.89	35.14	24.65	335.4	0.658
178	19.39	34.99			24.93	309.3	200	18.48	34.89	25.09	295.3	0.817
203	18.34	34.87			25.11	293.3	250	14.76	34.43	25.60	246.5	0.953
230	16.23	34.59			25.40	265.8	300	11.86	34.17	26.00	209.3	1.068
254	14.48	34.40			25.64	242.9	400	8.86	34.11	26.47	164.7	1.257
280	12.88	34.26			25.86	221.8	500	6.61	34.10	26.78	134.4	1.408
304	11.67	34.16			26.02	207.0	600	5.42	34.19	27.01	113.2	1.533
405	8.77	34.12			26.49	163.0	700	4.82	34.29	27.16	99.3	1.640
507	6.48	34.10			26.80	132.6	800	4.50	34.38	27.26	89.7	1.736
607	5.37	34.20			27.02	112.0	1000	4.01	34.50	27.41	77.3	1.905
809	4.48	34.39			27.27	89.1	1200	3.36	34.53	27.50	68.7	2.053
1012	3.98	34.50			27.41	76.7	1500	2.87	34.58	27.58	61.2	2.250
1213	3.32	34.53			27.50	68.2						
1518	2.65	34.58			27.59	61.0						

ΔFROM BT DATA

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 21

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 25.0		21, STATION WET BULB 22.7		7A, 10-	ON LAT, 154-	OW LONG, JAN. 22, 1966, 1000 G.C.T.	22, 1966, 1000 G.C.T.	BAR. 09	WEATHER 02	VIS. 6	CLOUD TYPE , COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	26.23	34.02	4.69		22.25	559.6	0	26.23	34.02	22.25	559.6	0.000		
9 ^Δ	26.25	34.01	4.78	0.24	22.23	561.3	10	26.25	34.01	22.23	561.1	0.056		
30	26.30	34.15			22.32	553.5	20	26.28	34.07	22.27	558.1	0.113		
47	26.33	34.24	4.73	0.26	22.38	548.6	30	26.30	34.15	22.32	553.5	0.169		
50 ^Δ	26.33	34.24			22.38	548.7	50	26.33	34.24	22.38	548.7	0.280		
69	25.74	34.33	4.81	0.33	22.63	525.4	75	23.91	34.39	23.23	468.3	0.408		
94	17.18	34.53	3.63	1.12	25.13	287.3	100	15.72	34.48	25.43	258.5	0.499		
118	12.74	34.37	2.26	1.28	25.98	206.9	150	11.71	34.68	26.42	165.7	0.606		
140	11.95	34.64	0.48	2.51	26.34	173.0	200	11.00	34.71	26.57	152.3	0.686		
164	11.45	34.70	0.32	2.09	26.48	160.1	250	10.36	34.72	26.69	141.3	0.761		
188	11.17	34.72	0.26	2.34	26.55	154.2	300	9.90	34.68	26.74	138.2	0.831		
212	10.83	34.70	0.29	2.59	26.59	150.3	400	9.16	34.64	26.83	130.4	0.967		
234	10.54	34.72	0.37	2.46	26.66	144.3	500	8.21	34.62	26.96	119.4	1.093		
258	10.27	34.72	0.39	2.64	26.71	140.3	600	7.20	34.58	27.08	108.8	1.208		
281	10.05	34.69	0.38	2.40	26.72	139.3	700	6.38	34.56	27.17	100.3	1.314		
375	9.36	34.65	0.36	2.54	26.81	132.8	800	5.70	34.55	27.26	92.8	1.411		
468	8.55	34.63	0.30	2.98	26.92	123.1	1000	4.69	34.57	27.39	80.3	1.586		
561	7.56	34.59	0.34	2.58	27.04	112.6	1200	3.91	34.59	27.49	70.8	1.739		
749	6.03	34.55	0.73	3.07	27.21	96.6	1500	3.12	34.62	27.59	61.3	1.940		
938	4.96	34.56	0.80	3.01	27.35	83.9								
1175	4.06	34.60	1.26	2.86	27.48	71.8								
1517	3.09	34.62	1.71	2.98	27.60	61.0								

TEMPERATURE ERROR TERM AT 75. METERS IS 0.39

CROMWELL DRY BULB 24.8		21, STATION WET BULB 22.3		8, 11-30N	LAT, 154-	OW LONG, JAN. 23, 1966, 1100 G.C.T.	23, 1966, 1100 G.C.T.	BAR. 11	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.32	34.37	4.85		22.79	507.5	0	25.32	34.37	22.79	507.5	0.000		
11	25.34	34.36	4.82	0.33	22.78	509.2	10	25.34	34.36	22.78	509.1	0.051		
49	25.36	34.34	4.84	0.30	22.75	512.8	20	25.35	34.35	22.77	510.4	0.103		
74 ^Δ	25.34	34.34	4.88	0.24	22.76	513.2	30	25.36	34.35	22.76	511.5	0.154		
75	25.34	34.34			22.76	513.2	50	25.36	34.34	22.76	512.8	0.257		
98	17.56	34.55	3.72	1.06	25.05	294.7	75	25.34	34.34	22.76	513.2	0.386		
123	12.57	34.36	2.46	1.63	26.00	204.6	100	17.01	34.53	25.17	283.5	0.487		
147	11.84	34.64	0.64	2.53	26.36	171.1	150	11.76	34.66	26.39	168.6	0.601		
171	11.30	34.71	0.31	2.71	26.51	156.9	200	10.91	34.72	26.59	149.8	0.681		
196	10.96	34.72	0.40	1.96	26.58	150.7	250	10.35	34.72	26.69	141.3	0.754		
221	10.66	34.73	0.39	2.58	26.65	145.4	300	9.76	34.70	26.77	134.4	0.824		
245	10.40	34.72	0.40	2.94	26.68	142.2	400	8.97	34.65	26.87	127.3	0.956		
269	10.13	34.72	0.58	2.63	26.73	138.1	500	8.05	34.60	26.97	118.6	1.080		
294	9.82	34.70	0.54	2.40	26.77	135.0	600	7.13	34.56	27.07	109.3	1.195		
392	9.04	34.65	0.38	2.63	26.86	127.9	700	6.36	34.54	27.16	101.2	1.301		
491	8.14	34.60	0.44	2.61	26.96	119.4	800	5.71	34.54	27.25	93.5	1.400		
589	7.22	34.56	0.48	2.84	27.06	110.3	1000	4.66	34.57	27.40	79.8	1.575		
786	5.80	34.54	0.64	2.93	27.24	94.7	1200	4.03	34.59	27.48	72.5	1.730		
982	4.73	34.57	1.05	3.29	27.39	80.6	1500	3.18	34.62	27.59	61.8	1.934		
1228	3.96	34.59	1.32	2.93	27.49	71.8								
1573	3.05	34.63	1.78	2.89	27.61	60.1								

CROMWELL DRY BULB 24.0		21, STATION WET BULB 22.8		9, 13-	ON LAT, 154-	OW LONG, JAN. 24, 1966, 1200 G.C.T.	24, 1966, 1200 G.C.T.	BAR. 14	WEATHER 02	VIS.	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.04	34.28	4.89		22.81	505.8	0	25.04	34.28	22.81	505.8	0.000		
9	25.06	34.28	4.86	0.35	22.80	506.8	10	25.06	34.28	22.80	506.8	0.051		
30 ^Δ	25.07	34.28			22.80	507.9	20	25.07	34.28	22.80	507.4	0.102		
47	25.08	34.28	4.86	0.29	22.79	508.8	30	25.07	34.28	22.80	507.9	0.153		
50 ^Δ	25.07	34.28			22.80	508.7	50	25.07	34.28	22.80	508.7	0.256		
72	22.99	34.80		0.29	23.81	413.2	75	22.74	34.85	23.92	402.7	0.370		
96	21.07	35.06	4.89	0.24	24.54	344.0	100	20.78	35.06	24.62	336.9	0.464		
120	19.21	34.93	4.55	0.33	24.93	307.2	150	15.87	34.58	25.47	256.6	0.613		
144	16.70	34.67	4.35	0.63	25.35	267.9	200	10.90	34.22	26.20	186.8	0.725		
168	13.46	34.32	3.86	1.15	25.79	225.8	250	10.47	34.56	26.55	155.0	0.811		
193	11.22	34.20	3.54	1.56	26.13	193.4	300	10.05	34.63	26.67	144.1	0.886		
217	10.49	34.31	2.43	2.17	26.35	173.3	400	8.58	34.58	26.88	125.7	1.023		
241	10.43	34.51	0.92	2.50	26.51	158.0	500	7.41	34.54	27.02	112.8	1.143		
264	10.50	34.62	0.35	2.75	26.59	151.7	600	6.44	34.52	27.14	102.3	1.252		
288	10.22	34.63	0.34	2.59	26.64	146.7	700	5.76	34.53	27.23	93.9	1.351		
386	8.76	34.59	0.28	2.75	26.86	127.8	800	5.16	34.54	27.31	86.5	1.442		
482	7.61	34.55	0.45	2.96	27.00	115.0	1000	4.05	34.56	27.46	72.8	1.603		
579	6.60	34.52	0.40	3.12	27.12	104.3	1200	3.40	34.58	27.54	65.1	1.743		
774	5.34	34.54	0.52	3.16	27.29	88.4								
909	4.47	34.54	0.76	3.29	27.39	78.8								
1055	3.85	34.58	1.20	3.23	27.49	69.6								
1356	3.22	34.60	1.66	3.02	27.57	62.9								

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 21, STATION 10, 14-28N LAT, 153-57W LONG, JAN. 25, 1966, 1100 G.C.T.												
DRY BULB 24.5		WET BULB 21.9		WIND SPEED 20, DIR. 05		BAR. 14	WEATHER 02		VIS. 7	CLOUD TYPE , COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.78	34.38	4.88		22.96	491.1	0	24.78	34.38	22.96	491.1	0.000
9 ^Δ	24.82	34.39	5.49	0.32	22.96	491.9	10	24.82	34.39	22.96	492.0	0.050
30	24.85	34.40			22.96	492.9	20	24.85	34.40	22.95	492.7	0.099
47	24.78	34.41	4.95	0.28	22.98	490.8	30	24.85	34.40	22.96	492.9	0.149
69	24.31	34.88	4.95	0.23	23.48	444.3	50	24.73	34.47	23.04	485.2	0.247
93	23.61	34.93	4.95	0.25	23.72	421.9	75	24.20	34.91	23.53	439.3	0.364
116	21.78	35.06	4.93	0.20	24.34	363.4	100	23.11	34.98	23.91	404.8	0.470
140	19.90	34.92	4.54	0.42	24.75	325.8	150	18.94	34.85	24.94	307.7	0.650
163	17.58	34.73	4.08	0.70	25.19	284.2	200	13.68	34.35	25.77	229.0	0.785
186	15.02	34.47	3.92	0.94	25.58	247.1	250	10.32	34.23	26.31	177.3	0.887
210	12.80	34.28	3.82	1.21	25.89	217.0	300	9.29	34.36	26.59	151.6	0.970
233	10.93	34.21	3.48	1.53	26.19	188.5	400	8.10	34.46	26.85	127.8	1.111
256	10.19	34.24	2.92	2.03	26.35	174.2	500	7.27	34.50	27.01	114.2	1.233
280	9.64	34.32	2.07	2.26	26.50	159.7	600	6.46	34.48	27.11	105.3	1.344
374	8.35	34.43	0.81	2.34	26.79	133.1	700	5.75	34.50	27.21	96.0	1.446
467	7.55	34.50	0.69	2.90	26.97	117.5	800	5.17	34.52	27.29	88.3	1.539
561	6.76	34.48	0.64	2.98	27.06	109.2	1000	4.30	34.54	27.41	77.6	1.707
750	5.44	34.51	0.66	3.11	27.26	91.6	1200	3.60	34.57	27.51	68.6	1.855
939	4.53	34.53	1.40	2.58	27.38	80.6	1500	2.85	34.62	27.62	58.1	2.048
1176	3.72	34.57	1.20	2.74	27.49	69.8						
1510	2.83	34.62	1.66	2.58	27.62	57.8						

CROMWELL 21, STATION 11, 16-04N LAT, 154-04W LONG, JAN. 26, 1966, 1100 G.C.T.														
DRY BULB 23.7		WET BULB 20.8		WIND SPEED 22, DIR. 04		BAR. 14		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.10	34.83	5.48		23.50	439.3	0	24.10	34.83	23.50	439.3	0.000		
25	24.12	34.82	4.90	0.21	23.49	441.5	10	24.12	34.82	23.49	440.7	0.044		
50	24.07	34.84	4.91	0.25	23.52	439.7	20	24.12	34.82	23.49	441.4	0.089		
75	23.86	34.88	4.91	0.19	23.61	431.8	30	24.12	34.82	23.49	441.6	0.133		
98	23.71	34.93	4.96	0.24	23.69	424.9	50	24.07	34.84	23.52	439.7	0.222		
124	22.00	35.06	4.88	0.24	24.28	369.6	75	23.86	34.88	23.61	431.8	0.332		
148	20.40	35.10	4.52	0.34	24.75	325.7	100	23.61	34.94	23.73	421.4	0.439		
172	18.84	34.92	4.41	0.50	25.02	300.7	150	20.28	35.09	24.78	323.3	0.627		
196	16.83	34.66	4.16	0.59	25.31	273.1	200	16.43	34.61	25.37	268.0	0.776		
221	14.29	34.37	3.92	1.00	25.66	240.2	250	11.86	34.28	26.07	200.6	0.894		
245	12.16	34.28	2.68	1.78	26.02	205.8	300	9.67	34.30	26.48	161.8	0.985		
343	8.93	34.40	1.06	2.73	26.68	143.7	400	8.22	34.43	26.82	131.2	1.133		
441	7.97	34.45	0.53	2.66	26.87	127.0	500	7.55	34.48	26.95	119.8	1.260		
539	7.29	34.49	0.52	3.05	27.00	115.7	600	6.76	34.49	27.07	108.8	1.375		
734	5.67	34.49	0.62	2.80	27.21	95.9	700	5.94	34.49	27.18	98.9	1.480		
931	4.75	34.52	0.80	2.97	27.35	84.0	800	5.31	34.50	27.26	91.4	1.577		
1175	3.84	34.56	1.16	3.15	27.47	72.0	1000	4.47	34.53	27.39	80.4	1.750		
1520	2.88	34.60	1.62	2.53	27.60	59.9	1200	3.74	34.56	27.49	71.0	1.904		
							1500	2.92	34.60	27.59	60.5	2.104		

TEMPERATURE ERROR TERM AT 300. METERS IS 0.27

CROMWELL 21, STATION 12, 17-30N LAT, 153-58W LONG, JAN. 27, 1966, 1000 G.C.T.														
DRY BULB 23.5		WET BULB 20.3		WIND SPEED 15, DIR. 10		BAR. 18		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	23.88	34.80	4.95		23.55	435.2	0	23.88	34.80	23.55	435.2	0.000		
11	23.91	34.79	4.95	0.25	23.53	437.2	10	23.91	34.79	23.53	437.2	0.044		
51	23.51	34.96	5.01	0.25	23.78	415.3	20	23.84	34.82	23.68	433.2	0.088		
75	23.44	34.96	4.99	0.22	23.80	414.3	30	23.75	34.86	23.58	428.1	0.131		
100	21.55	35.02	5.04	0.27	24.38	359.6	50	23.52	34.96	23.77	416.0	0.216		
126	20.38	35.05	4.70	0.27	24.72	328.0	75	23.44	34.96	23.80	414.3	0.321		
150	19.40	35.02	4.54	0.37	24.95	306.4	100	21.55	35.02	24.38	359.6	0.418		
175	17.92	34.83	4.47	0.45	25.18	285.3	150	19.40	35.02	24.95	306.4	0.586		
200	15.88	34.57	4.31	0.63	25.46	258.7	200	15.88	34.57	25.46	258.7	0.728		
225	13.58	34.32	4.22	0.89	25.77	229.7	250	11.50	34.15	26.04	203.4	0.845		
250	11.50	34.15	4.22	0.98	26.04	203.4	300	9.44	34.13	26.39	170.9	0.939		
275	10.32	34.12	4.04	1.24	26.23	185.6	400	7.40	34.17	26.73	138.7	1.095		
300	9.44	34.13	3.68	1.70	26.39	170.9	500	6.44	34.31	26.97	116.4	1.224		
400	7.40	34.17	1.88	2.48	26.73	138.7	600	5.86	34.42	27.13	101.8	1.334		
499	6.45	34.31	0.91	2.88	26.97	116.6	700	5.34	34.48	27.24	92.3	1.433		
598	5.87	34.42	0.69	2.85	27.13	102.0	800	4.89	34.50	27.31	85.9	1.523		
798	4.90	34.50	0.86	3.08	27.31	86.0	1000	4.16	34.52	27.41	77.3	1.688		
997	4.17	34.52	1.16	3.13	27.41	77.5	1200	3.60	34.59	27.53	66.8	1.834		
1245	3.49	34.61	1.33	2.62	27.55	64.6	1500	2.86	34.60	27.60	59.4	2.026		
1594	2.67	34.60	1.78	2.50	27.62	57.8								

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA				
CROMWELL 21, STATION 13, 19- ON LAT, 153-59W LONG, JAN. 28, 1966, 1000 G.C.T.											
DRY BULB 23.1		WET BULB 19.8		WIND SPEED 17, DIR. 04		BAR. 20		WEATHER 03		VIS. 7 CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA DYN.DPTH.
0	23.54	34.92	4.96		23.74	417.1	0	23.54	34.92	23.74	417.1 0.000
9	23.56	34.93	5.04	0.34	23.74	417.2	10	23.56	34.93	23.74	417.2 0.042
45	23.48	34.93	5.09	0.28	23.76	416.4	20	23.54	34.93	23.74	417.1 0.084
68	23.47	34.94	5.00	0.30	23.77	416.3	30	23.52	34.93	23.75	416.9 0.126
92	23.40	34.94	4.99	0.28	23.79	415.3	40	23.48	34.93	23.76	416.4 0.210
115	23.17	34.96	5.00	0.25	23.87	408.3	75	23.46	34.94	23.77	416.4 0.315
137	21.36	35.04	5.00	0.28	24.45	354.5	100	23.43	34.94	23.79	416.1 0.420
160	20.23	35.11	4.77	0.51	24.80	321.1	150	20.65	35.09	24.68	333.0 0.608
183	19.48	35.05	4.65	0.41	24.95	307.4	200	18.69	34.96	25.09	295.4 0.767
206	18.34	34.91	4.58	0.47	25.14	290.5	250	14.02	34.33	25.69	238.1 0.901
230	16.50*	34.66	4.42	0.61	25.39	266.8	300	10.97	34.15	26.14	194.8 1.011
253	13.66	34.29	4.20	1.01	25.73	234.2	400	8.45	34.34	26.70	142.0 1.180
276	12.16	34.17	4.09	1.16	25.93	214.6	500	7.34	34.39	26.91	123.2 1.314
369	8.83	34.29	1.88	2.42	26.61	150.7	600	5.98	34.37	27.08	107.0 1.431
461	7.99	34.40	0.69	2.89	26.82	131.4	700	5.33	34.42	27.20	96.1 1.533
554	6.43	34.36	0.68	3.02	27.01	113.4	800	4.96	34.47	27.28	89.0 1.627
740	5.20	34.45	0.88	3.11	27.24	92.9	1000	4.30	34.51	27.39	79.8 1.798
927	4.55	34.50	0.94	3.11	27.35	83.0	1200	3.68	34.55	27.48	71.3 1.951
1161	3.78	34.53	1.30	3.20	27.46	73.4					
1493	2.91	34.59	1.58	3.11	27.59	60.8					

TEMPERATURE ERROR TERM AT 400. METERS IS 0.12

CROMWELL 21, STATION 14, 20-30N LAT, 153-58W LONG, JAN. 29, 1966, 1200 G.C.T.													
DRY BULB 21.5		WET BULB 19.4		WIND SPEED 20, DIR. 05		BAR. 20		WEATHER 02		VIS. 6		CLOUD TYPE 5, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPT	
0	22.66	34.98	5.06		24.04	388.5	0	22.66	34.98	24.04	388.5	0.000	
10	22.68	34.98	5.06	0.50	24.03	389.4	10	22.68	34.98	24.03	389.4	0.039	
50	22.53	35.03	5.18		24.11	383.3	20	22.66	34.99	24.05	388.4	0.078	
75	22.48	35.04	5.09	0.21	24.13	382.1	30	22.62	35.00	24.06	387.0	0.117	
100	22.40	35.03	5.08	0.22	24.15	381.6	50	22.53	35.03	24.11	383.3	0.195	
125	21.79	35.10	5.00	0.29	24.37	361.1	75	22.48	35.04	24.13	382.1	0.291	
150	20.46	35.14	4.90	0.30	24.77	324.4	100	22.40	35.03	24.15	381.6	0.388	
174	19.95	35.14	4.80	0.27	24.90	312.3	150	20.46	35.14	24.77	324.4	0.565	
200	18.83	34.99	4.64	0.36	25.08	296.3	200	18.83	34.99	25.08	296.3	0.722	
225	16.91	34.74	4.57	0.47	25.35	270.1	250	14.32	34.35	25.64	243.2	0.856	
249	14.41	34.36	4.39	0.79	25.63	244.2	300	11.19	34.18	26.12	196.9	0.969	
274	12.56	34.21	4.41	0.99	25.89	219.2	400	8.07	34.07	26.55	155.8	1.147	
299	11.23	34.18	4.66	1.04	26.12	197.5	500	6.42	34.16	26.86	127.2	1.290	
399	8.09	34.07	3.36	1.98	26.55	156.1	600	5.49	34.26	27.05	108.9	1.409	
499	6.43	34.16	1.48	2.66	26.86	127.4	700	5.06	34.37	27.19	96.6	1.513	
599	5.50	34.26	0.82	2.93	27.05	109.1	800	4.84	34.46	27.29	88.2	1.606	
799	4.84	34.46	0.86	3.06	27.29	88.2	1000	4.22	34.51	27.40	78.9	1.775	
998	4.23	34.51	1.05	3.19	27.39	78.9	1200	3.65	34.54	27.48	71.1	1.927	
1247	3.53	34.55	1.26	3.10	27.50	69.5	1500	2.95	34.58	27.57	62.4	2.130	
1596	2.75	34.58	1.69	3.11	27.59	60.3							

CROMWELL 21, STATION 15, 22- ON LAT, 153-59W LONG, JAN. 30, 1966, 1000 G.C.T.													
DRY BULB 21.4		WET BULB 17.1		WIND SPEED 09, DIR. 06		BAR. 21		WEATHER 03		VIS. 6		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPT	
0	22.49	35.03	6.00		24.12	380.3	0	22.49	35.03	24.12	380.3	0.000	
10	22.58	35.03	5.18	0.27	24.10	383.1	10	22.58	35.03	24.10	383.1	0.038	
46	22.60	35.01	5.33	0.20	24.08	386.4	20	22.61	35.02	24.08	384.8	0.077	
69	22.60	35.02	5.29	0.18	24.08	386.6	30	22.62	35.02	24.08	385.9	0.116	
93	22.57	35.03	5.38	0.19	24.10	386.0	50	22.60	35.01	24.08	386.6	0.194	
116	22.57	35.04	5.17	0.18	24.11	386.1	75	22.59	35.02	24.09	386.4	0.291	
139	21.61	35.10	4.83	0.42	24.42	356.9	100	22.62	35.03	24.09	387.6	0.389	
161	20.88	35.13	4.72	0.24	24.64	336.4	150	21.26	35.12	24.54	346.4	0.574	
185	19.69	35.09	4.58	0.30	24.93	309.8	200	18.98	35.02	25.06	298.2	0.736	
208	18.56	34.96	4.45	0.35	25.12	292.2	250	15.39	34.54	25.55	251.9	0.875	
231	16.90*	34.74	4.58	0.44	25.36	270.0	300	12.68	34.28	25.92	217.0	0.993	
254	15.09	34.50	4.58	0.62	25.59	248.4	400	8.95	34.12	26.46	165.7	1.186	
277	13.83	34.37	4.65	0.67	25.75	232.4	500	6.97	34.13	26.76	137.4	1.339	
369	9.88	34.14	3.90	1.62	26.32	178.7	600	5.96	34.20	26.95	119.7	1.469	
461	7.57	34.12	2.48	2.29	26.67	145.8	700	5.29	34.32	27.12	103.3	1.582	
555	6.36	34.15	1.46	2.63	26.86	128.0	800	4.82	34.42	27.26	91.0	1.680	
740	5.10	34.37	0.70	3.15	27.19	97.5	1000	4.10	34.51	27.41	77.1	1.850	
926	4.34	34.49	0.90	3.21	27.37	81.1	1200	3.51	34.57	27.51	67.7	1.997	
1161	3.64	34.54	1.16		27.48	70.9							
1494	2.93	34.59	1.57	2.96	27.59	61.1							

*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL 21, STATION 16, 23-30N LAT, 153-58W LONG, JAN. 31, 1966, 0900 G.C.T.						BAR. 19		VIS. 7		CLOUD TYPE 8, COVER 7		
DRY BULB 22.2 WET BULB 19.0 WIND SPEED 15, DIR. 13												
DEPTH	TEMP.	SAL.	OKY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	22.25	35.04	5.10		24.20	373.1	0	22.25	35.04	24.20	373.1	0.000
9	22.27	35.04	5.16	0.16	24.19	374.0	10	22.27	35.04	24.19	373.9	0.038
47	22.02	35.06	5.18	0.19	24.28	367.2	20	22.22	35.04	24.21	373.0	0.075
70	21.90	35.10	5.32	0.18	24.34	362.0	30	22.16	35.05	24.23	371.4	0.113
94	21.82	35.11	5.14	0.19	24.37	360.1	50	22.00	35.07	24.29	366.5	0.187
116	21.73	35.18	5.12	0.11	24.45	353.4	75	21.88	35.10	24.35	361.7	0.279
140	20.45	35.13	4.96	0.19	24.76	324.5	100	21.85	35.13	24.38	359.5	0.370
164	19.65	35.12	4.88	0.18	24.96	305.9	150	20.13	35.14	24.85	316.3	0.540
186	18.33	34.94	4.74	0.30	25.16	287.4	200	17.69	34.85	25.25	279.3	0.690
209	17.27	34.79	4.73	0.54	25.31	274.2	250	15.15	34.52	25.59	248.2	0.823
232	15.82	34.60	4.78	0.47	25.50	256.2	300	12.86	34.31	25.90	218.6	0.941
255	14.98	34.50	4.75	0.58	25.61	246.1	400	9.67	34.12	26.34	177.2	1.140
278	13.81	34.38	4.78	0.64	25.77	231.3	500	7.28	34.04	26.64	148.3	1.305
371	10.44	34.17	4.91	1.12	26.25	186.0	600	5.51	34.10	26.92	121.4	1.441
462	8.22	34.05	3.92	1.79	26.52	160.6	700	4.73	34.22	27.11	103.5	1.555
554	6.10	34.05	2.14	2.47	26.81	131.9	800	4.40	34.35	27.25	91.0	1.653
738	4.62	34.28	0.69	3.10	27.17	98.2	1000	3.95	34.50	27.41	76.4	1.822
922	4.14	34.46	1.04	3.28	27.36	80.8	1200	3.48	34.58	27.52	66.6	1.967
1154	3.59	34.54	1.38	3.01	27.48	70.3						
1482	2.89	34.59	1.67	3.06	27.59	60.5						

CROMWELL 21, STATION 39, 25- 14 LAT, 153-57W LONG, FEB. 1, 1966, 0900 G.C.T.						BAR. 15		WEATHER 01		VIS. 6 CLOUD TYPE 6, COVER 8		
DRY BULB 21.0 WET BULB 19.0 WIND SPEED 20, DIR. 27												
DEPTH	TEMP.	SAL.	OKY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	21.85**	35.12	5.14		24.37	356.6	0	21.85	35.12	24.37	356.6	0.000
10	21.83	35.10	5.10	0.14	24.36	357.9	10	21.83	35.10	24.36	357.9	0.036
48	21.87	35.11	5.13	0.12	24.36	359.7	20	21.84	35.10	24.36	358.7	0.072
72	21.84	35.11	5.10	0.16	24.37	359.8	30	21.85	35.10	24.35	359.3	0.108
96	21.59	35.16	5.10	0.15	24.47	350.4	50	21.87	35.11	24.36	359.9	0.181
121	21.60	35.16	5.10	0.11	24.47	351.6	75	21.81	35.12	24.38	358.6	0.271
146	21.40	35.18	5.02	0.20	24.54	345.8	100	21.59	35.16	24.47	350.5	0.360
170	20.17	35.10	4.88	0.22	24.81	320.6	150	21.22	35.17	24.58	342.0	0.535
194	19.14	35.02	5.32	0.46	25.02	301.5	200	18.73	34.98	25.09	295.0	0.696
219	17.34	34.81	4.82	0.40	25.31	274.7	250	15.45	34.56	25.55	251.7	0.833
244	15.76	34.60	4.71	0.54	25.51	255.2	300	12.99	34.34	25.90	219.0	0.952
267	14.63	34.46	4.66	0.78	25.66	242.0	400	9.81	34.13	26.31	178.6	1.153
292	13.33	34.36	4.88	0.78	25.85	223.6	500	7.57	34.05	26.61	151.5	1.319
390	10.08	34.15	4.84	1.20	26.30	181.8	600	6.02	34.08	26.84	129.4	1.461
489	7.77	34.05	3.75	1.95	26.58	154.3	700	5.03	34.16	27.03	111.5	1.583
586	6.29	34.10	1.76	2.66	26.83	131.1						
782	4.64	34.28	0.64	3.19	27.17	98.9						

CROMWELL 21, STATION 39A, 26-30N LAT, 153-58W LONG, FEB. 2, 1966, 1200 G.C.T.						BAR. 16		WEATHER 03		VIS. 7 CLOUD TYPE 8, COVER 3		
DRY BULB 18.0 WET BULB 13.8 WIND SPEED 12, DIR. 01												
DEPTH	TEMP.	SAL.	OKY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	21.34	35.13	5.43		24.52	342.4	0	21.34	35.13	24.52	342.4	0.000
9	21.37	35.13	5.20	0.15	24.51	343.6	10	21.37	35.13	24.51	343.7	0.035
45	21.38	35.12	5.18	0.11	24.50	345.9	20	21.38	35.13	24.50	344.6	0.069
67	21.38	35.13	5.24	0.23	24.51	346.0	30	21.39	35.12	24.50	345.3	0.104
90	21.35	35.13	5.14	0.16	24.52	346.0	50	21.38	35.12	24.50	346.0	0.174
113	21.36	35.14	5.22	0.16	24.52	346.4	75	21.37	35.13	24.51	346.0	0.261
135	21.35	35.19	5.06	0.16	24.56	343.4	100	21.35	35.13	24.52	346.4	0.348
156	19.22	35.03	4.88	0.29	25.01	301.5	150	19.88	35.08	24.88	313.7	0.514
178	18.16	34.90	4.83	0.28	25.17	286.0	200	17.40	34.81	25.29	275.5	0.663
202	17.32	34.80	4.80	0.41	25.30	274.4	250	14.86	34.51	25.64	242.6	0.793
225	15.69	34.60	4.83	0.50	25.53	253.1	300	12.82	34.34	25.93	215.5	0.909
248	14.95	34.52	4.80	0.62	25.63	243.8	400	9.85	34.13	26.32	179.9	1.108
270	13.96	34.43	4.77	0.68	25.77	230.5	500	7.59	34.04	26.60	152.7	1.276
360	10.93	34.20	4.97	0.87	26.19	192.1	600	5.97	34.06	26.83	130.2	1.419
451	8.64	34.06	3.96	1.46	26.46	166.2	700	4.91	34.12	27.01	113.4	1.542
542	6.81	34.04	2.70	2.25	26.71	142.1	800	4.29	34.22	27.16	99.3	1.650
725	4.73	34.14	1.00	2.93	27.05	109.8	1000	3.69	34.41	27.37	80.2	1.831
909	3.91	34.34	0.52	3.28	27.29	86.9	1200	3.22	34.52	27.50	68.0	1.981
1144	3.46	34.48	1.03	3.15	27.45	73.1	1500	2.85	34.56	27.57	62.2	2.180
1523	2.84	34.56	1.58	2.91	27.57	62.4						

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

**EXTRAPOLATED DATA

MS# 1587

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